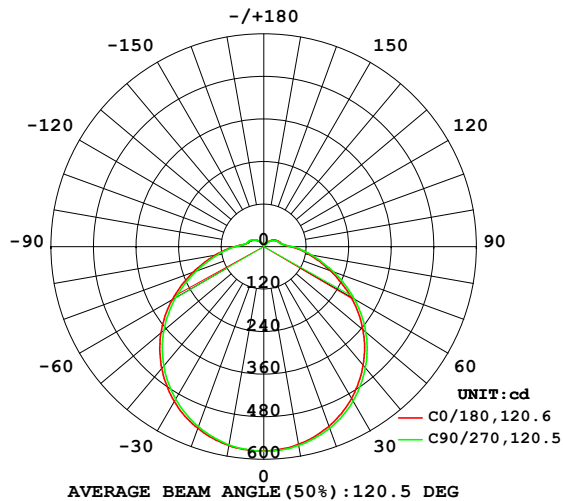


LUMINAIRE PHOTOMETRIC TEST REPORT

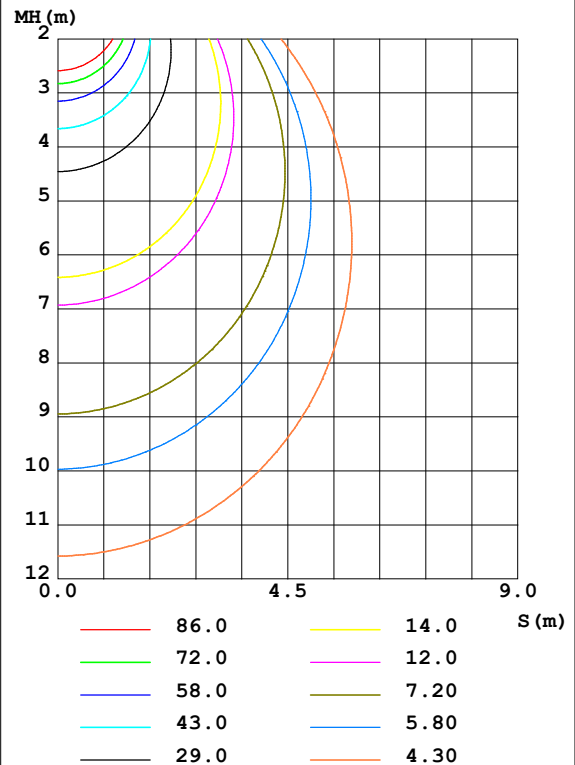
Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.84 lm/W			
MODEL	ASD-LFMDR-16D24CC-BK	Imax(cd)	577.3	S/MH(C0/180)	1.30
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2120.7	η UP,DN(C0-180)	5.0,44.5
NOMINAL FLUX(lm)	2120.69	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.4,45.1
LAMPS INSIDE	1	η up(%)	10.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	89.7	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 9.100m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

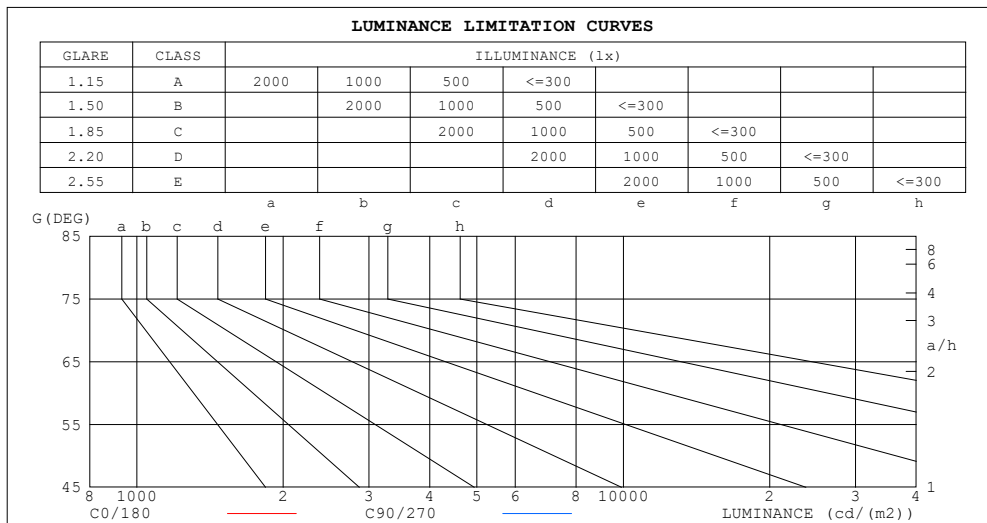
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	566.0	566.5	569.5	567.9	569.4	569.8	567.4	567.8	0- 10	54.64	54.64	2.58,2.58
20	538.7	539.8	544.9	542.5	545.2	545.5	540.0	541.6	10- 20	157.4	212.0	10,10
30	495.0	495.8	503.4	500.1	504.8	504.8	497.1	499.0	20- 30	241.3	453.3	21.4,21.4
40	436.3	436.8	445.9	442.0	448.1	448.8	438.7	441.5	30- 40	295.8	749.1	35.3,35.3
50	365.2	364.9	375.7	371.1	378.6	379.6	367.8	371.8	40- 50	315.2	1064	50.2,50.2
60	283.9	283.1	294.7	289.5	297.9	298.8	286.7	291.4	50- 60	297.1	1361	64.2,64.2
70	200.5	199.4	209.8	204.9	212.8	213.5	202.3	207.5	60- 70	245.7	1607	75.8,75.8
80	131.4	129.5	137.2	133.5	138.8	139.4	131.9	136.1	70- 80	178.3	1785	84.2,84.2
90	76.95	74.61	80.83	78.16	83.07	85.21	79.81	82.07	80- 90	115.9	1901	89.7,89.7
100	51.02	49.02	49.65	48.21	50.70	52.58	51.57	52.65	90-100	68.39	1970	92.9,92.9
110	44.53	42.58	42.47	41.58	43.25	44.88	45.27	46.02	100-110	49.49	2019	95.2,95.2
120	36.80	34.62	35.05	34.49	36.94	38.36	38.34	39.19	110-120	40.16	2059	97.1,97.1
130	27.43	25.18	25.99	25.69	28.79	30.18	29.77	30.43	120-130	29.16	2089	98.5,98.5
140	17.16	15.43	16.10	16.00	19.23	20.59	20.05	20.21	130-140	17.92	2106	99.3,99.3
150	9.550	8.900	9.205	9.019	10.33	11.24	10.90	10.71	140-150	8.660	2115	99.7,99.7
160	5.788	5.567	5.737	5.635	6.302	6.669	6.336	6.229	150-160	3.661	2119	99.9,99.9
170	4.496	4.457	4.451	4.440	4.738	4.868	4.750	4.693	160-170	1.482	2120	100,100
180	4.179	4.094	3.845	3.721	4.168	4.100	3.828	3.704	170-180	0.4190	2121	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:9.100m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	147053	154395
80	94565	98788
75	78997	82537
70	73263	76663
65	71384	74480
60	70964	73672
55	70956	73316
50	71026	73061
45	71150	72902

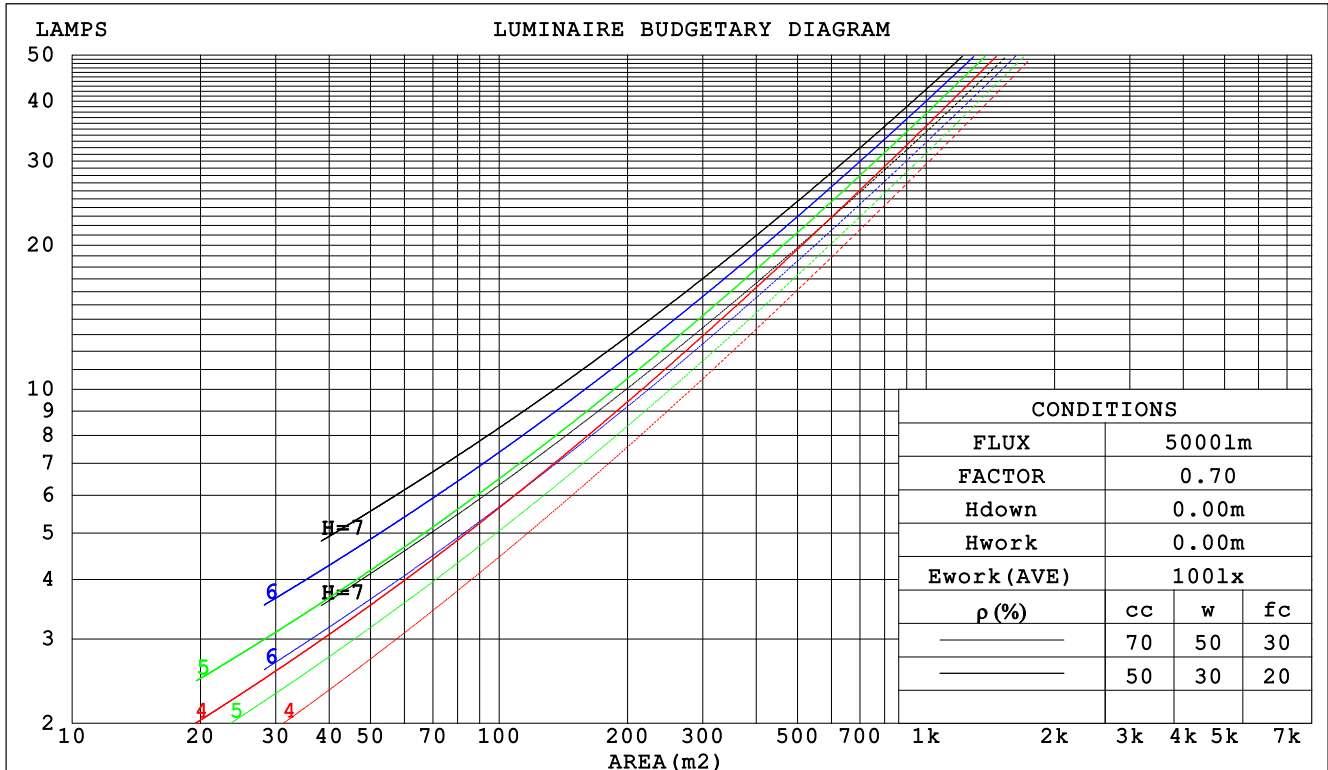
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.05	1.05	1.05	.99	.99	.99	.93	.93	.93	.90
1.0	.99	.94	.90	.96	.91	.87	.89	.86	.82	.84	.81	.78	.78	.76	.74	.71
2.0	.85	.78	.72	.82	.76	.70	.77	.72	.67	.72	.68	.64	.68	.64	.61	.58
3.0	.74	.66	.59	.72	.64	.58	.67	.61	.55	.63	.58	.53	.59	.55	.51	.48
4.0	.66	.56	.49	.64	.55	.48	.60	.52	.47	.56	.50	.45	.53	.47	.43	.41
5.0	.58	.49	.42	.57	.48	.41	.53	.46	.40	.50	.44	.39	.47	.42	.37	.35
6.0	.52	.43	.37	.51	.42	.36	.48	.40	.35	.45	.39	.34	.43	.37	.33	.30
7.0	.47	.38	.32	.46	.38	.32	.43	.36	.31	.41	.35	.30	.39	.33	.29	.27
8.0	.43	.34	.28	.42	.34	.28	.40	.32	.27	.38	.31	.26	.36	.30	.26	.24
9.0	.39	.31	.25	.38	.31	.25	.36	.29	.24	.35	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm					
NAME: ASD-LFMDR-16D24CC-BK			TYPE:		WEIGHT:
SPEC.:5000K			DIM.: 16inch		SERIAL No.:1
MFR.: ASD Lighting Corp			SUR.:		Shielding Angle:0

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.356	.203	.064	.346	.197	.063	.327	.187	.060	.309	.178	.057	.293	.170	.055		
2.0	.317	.174	.053	.308	.170	.052	.291	.162	.050	.275	.154	.048	.260	.147	.046		
3.0	.286	.152	.046	.278	.149	.045	.262	.142	.043	.248	.136	.042	.234	.130	.040		
4.0	.260	.135	.040	.252	.132	.039	.238	.126	.038	.225	.121	.036	.213	.116	.035		
5.0	.238	.121	.035	.231	.119	.035	.218	.114	.033	.206	.109	.032	.195	.104	.031		
6.0	.219	.110	.031	.213	.107	.031	.201	.103	.030	.190	.099	.029	.180	.095	.028		
7.0	.202	.100	.028	.197	.098	.028	.187	.094	.027	.177	.091	.026	.168	.087	.026		
8.0	.188	.092	.026	.183	.090	.026	.174	.087	.025	.165	.084	.024	.156	.080	.023		
9.0	.176	.085	.024	.171	.083	.023	.163	.080	.023	.154	.077	.022	.147	.074	.022		
10.0	.165	.079	.022	.161	.078	.022	.153	.075	.021	.145	.072	.020	.138	.069	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.269	.269	.269	.230	.230	.230	.157	.157	.157	.090	.090	.090	.029	.029	.029	
1.0	.263	.235	.210	.225	.202	.181	.154	.139	.125	.089	.080	.073	.028	.026	.024	
2.0	.256	.212	.175	.219	.182	.151	.150	.126	.105	.087	.073	.062	.028	.024	.020	
3.0	.248	.195	.152	.213	.168	.132	.146	.117	.093	.084	.068	.055	.027	.022	.018	
4.0	.240	.182	.138	.206	.157	.119	.142	.110	.084	.082	.064	.050	.026	.021	.016	
5.0	.233	.172	.127	.200	.149	.111	.138	.104	.078	.080	.061	.046	.026	.020	.015	
6.0	.225	.164	.120	.194	.142	.104	.134	.099	.074	.078	.058	.044	.025	.019	.014	
7.0	.218	.157	.114	.188	.136	.100	.130	.095	.071	.075	.056	.042	.024	.018	.014	
8.0	.212	.151	.110	.182	.131	.096	.126	.092	.068	.073	.054	.041	.024	.018	.013	
9.0	.205	.147	.107	.177	.127	.093	.123	.089	.066	.071	.053	.039	.023	.017	.013	
10.0	.200	.142	.104	.172	.124	.091	.119	.087	.065	.070	.051	.039	.023	.017	.013	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm										
NAME: ASD-LFMDR-16D24CC-BK					TYPE:			WEIGHT:		
SPEC.:5000K					DIM.: 16inch			SERIAL No.:1		
MFR.: ASD Lighting Corp					SUR.:			Shielding Angle:0		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	24.3	25.7	24.7	26.1	26.5	24.5	25.9	24.9	26.3	26.7
3H	26.1	27.4	26.6	27.9	28.3	26.4	27.7	26.8	28.1	28.6
4H	27.0	28.3	27.5	28.7	29.2	27.3	28.6	27.8	29.0	29.5
6H	28.0	29.1	28.4	29.6	30.1	28.2	29.4	28.7	29.9	30.4
8H	28.5	29.6	29.0	30.1	30.6	28.7	29.9	29.2	30.4	30.9
12H	29.0	30.1	29.5	30.6	31.1	29.3	30.4	29.8	30.9	31.4
4H 2H	25.0	26.2	25.4	26.6	27.1	25.1	26.4	25.6	26.8	27.3
3H	27.0	28.1	27.5	28.6	29.1	27.2	28.3	27.7	28.8	29.3
4H	28.0	29.0	28.6	29.5	30.1	28.3	29.3	28.8	29.8	30.3
6H	29.1	30.1	29.7	30.6	31.2	29.4	30.3	30.0	30.9	31.4
8H	29.7	30.6	30.3	31.1	31.7	30.0	30.9	30.6	31.4	32.0
12H	30.4	31.2	31.0	31.8	32.4	30.7	31.5	31.3	32.1	32.7
8H 4H	28.4	29.3	29.0	29.8	30.4	28.7	29.5	29.2	30.0	30.7
6H	29.8	30.5	30.4	31.1	31.7	30.0	30.8	30.6	31.3	32.0
8H	30.6	31.2	31.2	31.8	32.5	30.8	31.5	31.4	32.1	32.7
12H	31.5	32.0	32.1	32.6	33.3	31.7	32.3	32.4	32.9	33.6
12H 4H	28.5	29.3	29.1	29.9	30.5	28.7	29.5	29.3	30.1	30.7
6H	30.0	30.6	30.6	31.2	31.9	30.2	30.8	30.8	31.4	32.1
8H	30.8	31.4	31.5	32.0	32.7	31.1	31.6	31.7	32.3	32.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 2121 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.6$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

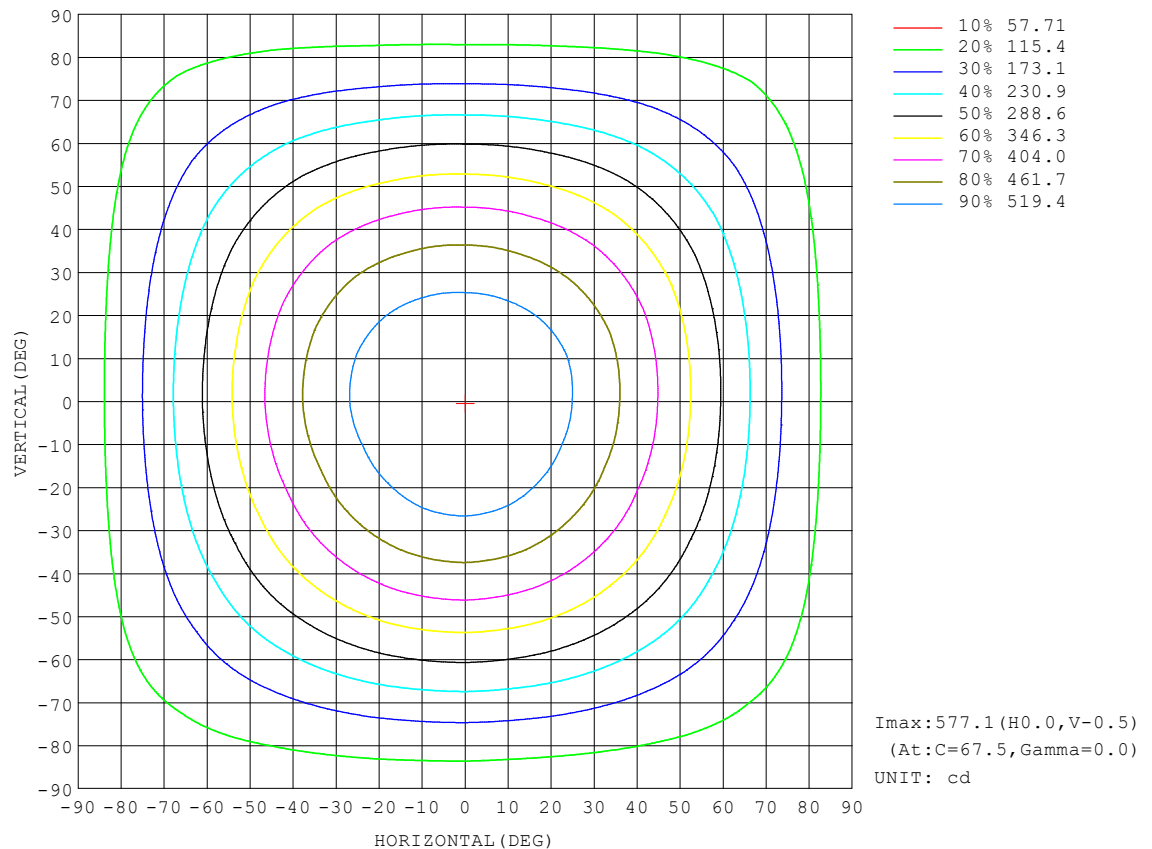
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	39	32	49	39	32	25
0.80	61	49	41	60	48	41	58	47	40	33
1.00	69	57	49	68	56	49	65	57	48	40
1.25	76	65	57	74	64	56	71	61	55	46
1.50	81	70	62	79	69	61	75	66	60	51
2.00	89	78	71	86	77	70	81	74	68	57
2.50	93	84	76	90	82	75	85	78	72	61
3.00	96	88	81	93	86	80	88	82	77	65
4.00	101	94	88	97	91	86	92	86	82	70
5.00	103	97	92	100	95	90	94	89	86	73
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

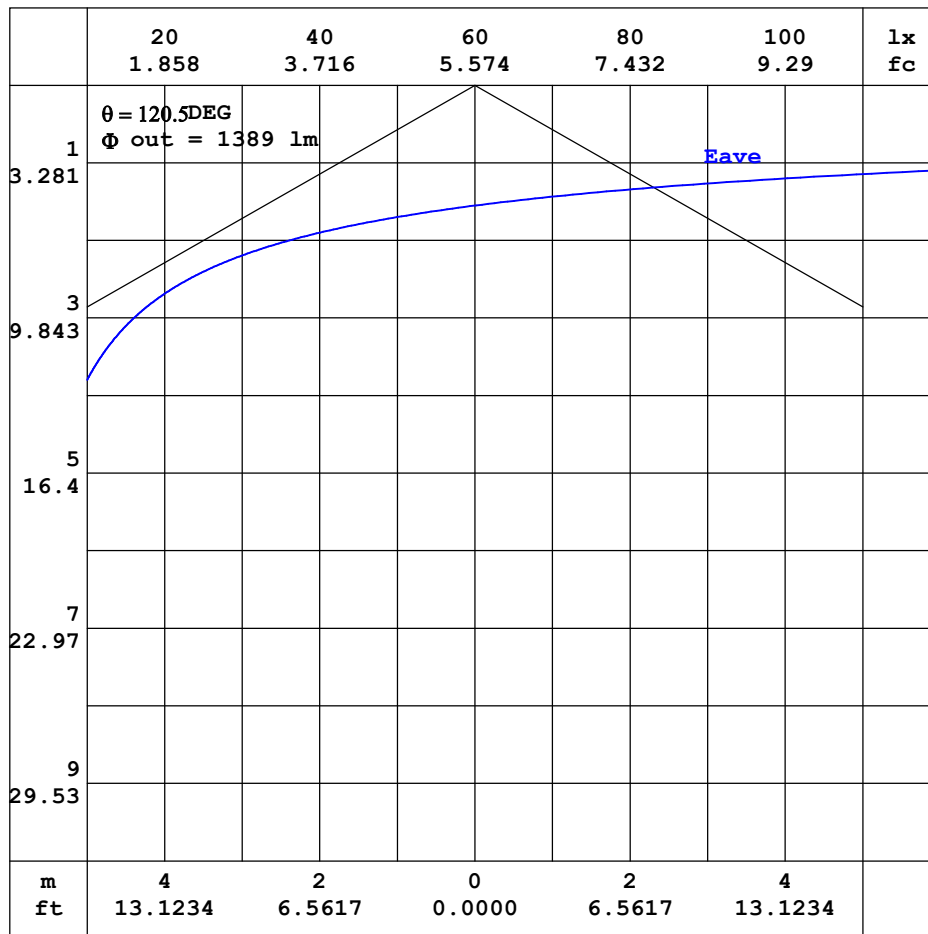


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

AAI CURVES

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



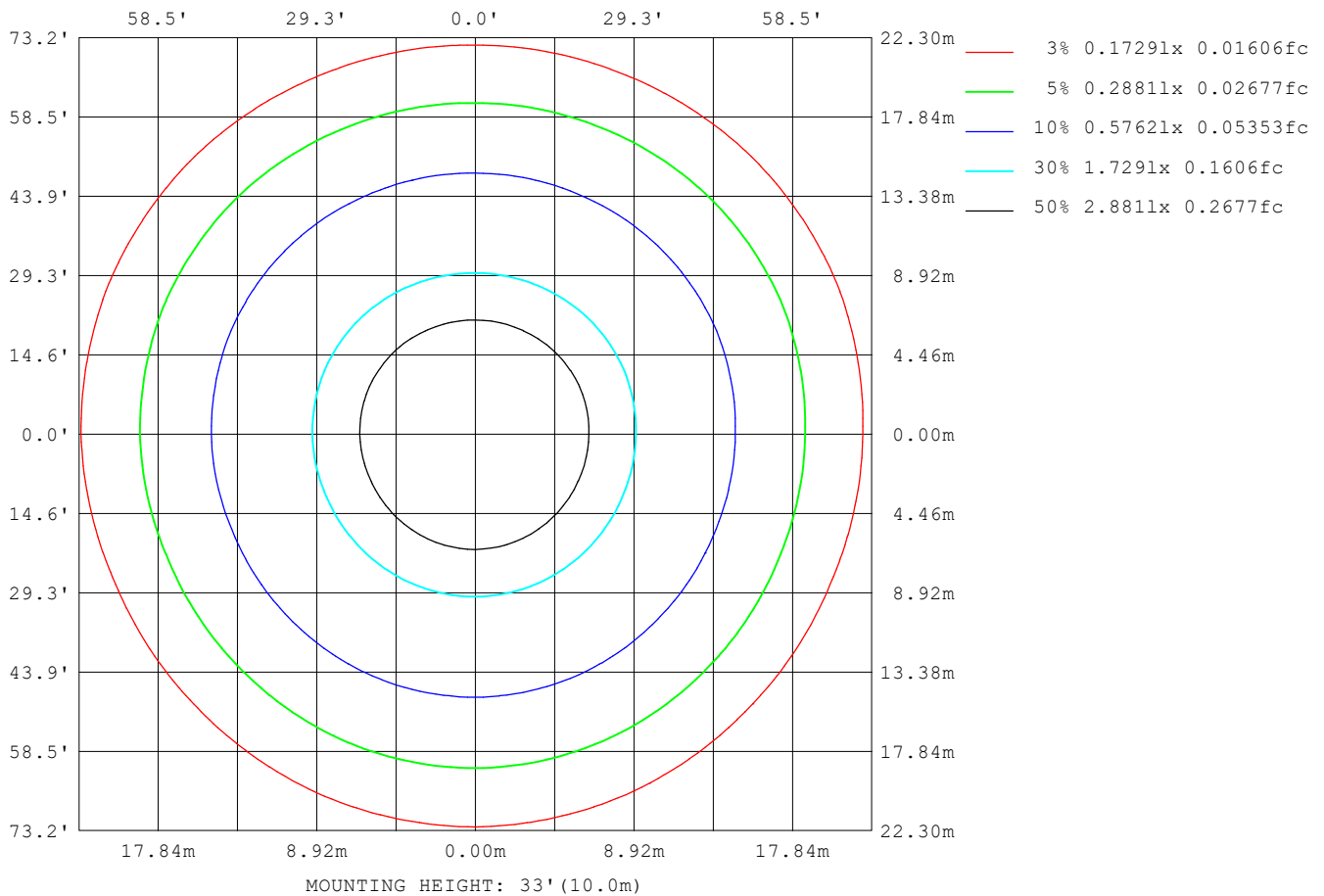
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 9.100m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

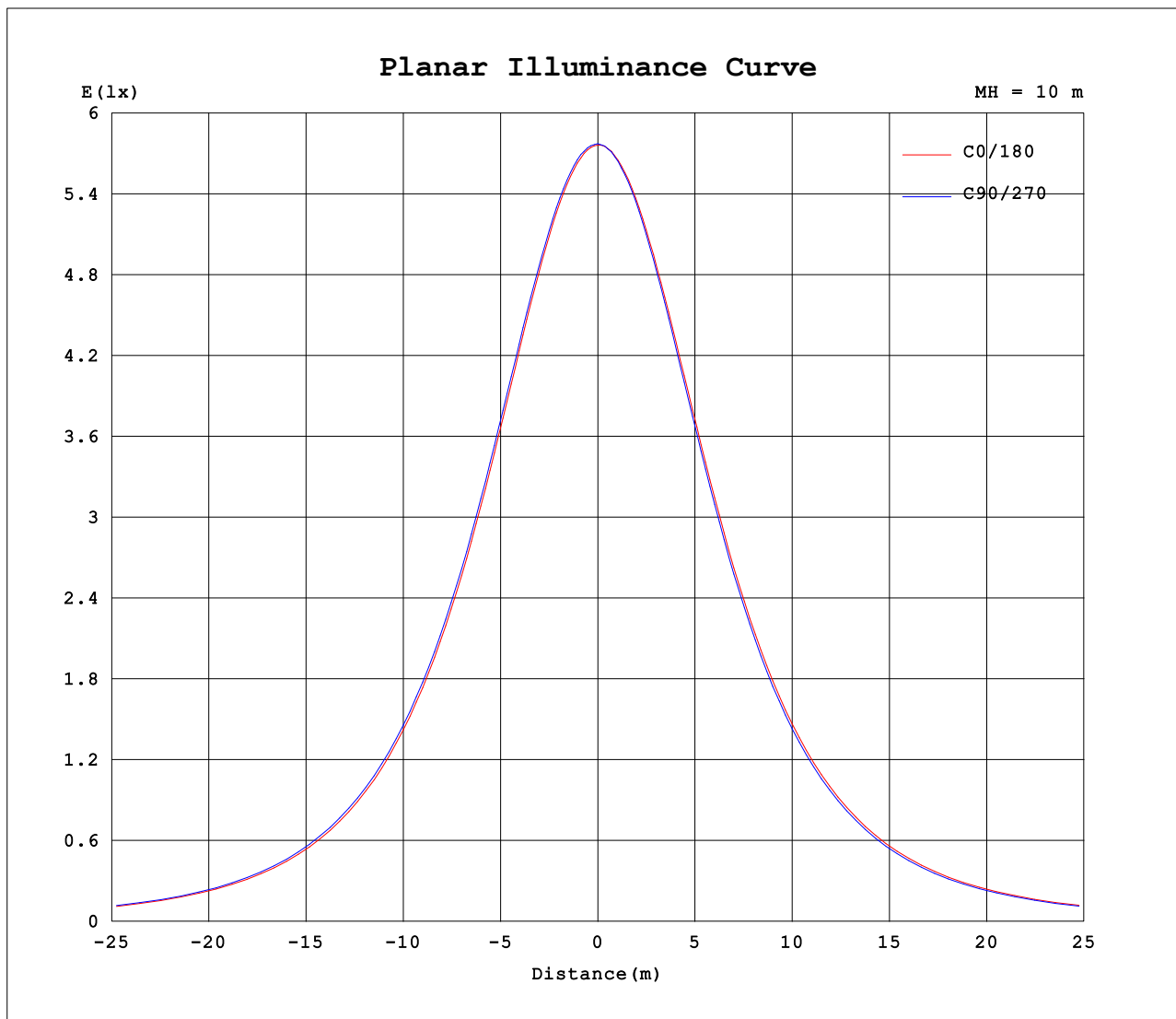
AvgL	cd/m2
L_0~180 (65) av	73437
L_0~180 (75) av	81370
L_0~180 (85) av	151877
L_90~270 (65) av	73333
L_90~270 (75) av	80976
L_90~270 (85) av	152047
L_45 (65) av	73385
L_45 (75) av	81137
L_45 (85) av	151599

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 9.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.94V I:0.2617A P:28.337W PF:0.9028 Freq:59.98Hz Lamp Flux:2120.69x1 lm		
NAME: ASD-LFMDR-16D24CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 16inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	576	576	577	577	577	577	576	576	576	576	577	577	577	577	576	576			
5	573	573	574	575	576	575	574	574	575	576	575	575	574	574	574	574			
10	566	566	566	568	569	569	568	568	569	570	570	569	567	567	568	568			
15	555	554	555	558	559	559	558	557	559	560	559	557	556	555	557	557			
20	539	538	540	543	545	545	542	542	545	547	545	542	540	540	542	542			
25	519	517	520	524	526	526	523	523	527	529	527	523	521	521	522	523			
30	495	493	496	501	503	503	500	500	505	507	505	500	497	497	499	500			
35	467	465	468	473	477	476	473	472	478	481	478	473	469	469	471	473			
40	436	433	437	443	446	445	442	441	448	451	449	442	439	439	441	443			
45	402	399	402	409	412	411	408	407	415	418	416	409	405	405	408	409			
50	365	362	365	372	376	375	371	371	379	382	380	372	368	368	372	373			
55	326	321	325	332	336	335	331	331	340	344	340	333	328	329	332	334			
60	284	279	283	291	295	294	289	289	298	302	299	291	287	287	291	292			
65	241	237	240	248	252	251	247	246	255	259	256	248	244	245	249	250			
70	200	196	199	206	210	209	205	204	213	217	213	206	202	203	208	208			
75	164	160	162	167	171	170	167	166	173	177	174	167	164	166	169	171			
80	131	127	129	134	137	136	133	133	139	142	139	134	132	133	136	138			
85	103	98.8	100	104	108	107	104	104	109	112	110	106	104	105	108	109			
90	76.9	73.6	74.6	78.0	80.8	80.7	78.2	78.6	83.1	86.6	85.2	81.2	79.8	80.5	82.1	82.8			
95	59.8	57.3	57.5	58.9	60.7	60.5	58.9	59.2	62.6	65.5	64.9	62.4	61.7	62.4	63.2	63.6			
100	51.0	49.4	49.0	48.8	49.6	49.1	48.2	48.7	50.7	52.8	52.6	51.5	51.6	52.3	52.6	53.4			
105	47.8	46.4	45.9	45.1	45.3	44.7	44.2	44.6	45.6	47.1	47.2	46.9	47.4	48.4	48.7	49.2			
110	44.5	43.1	42.6	42.2	42.5	42.0	41.6	41.9	43.2	44.6	44.9	44.9	45.3	45.9	46.0	46.2			
115	40.9	39.3	38.8	38.8	39.0	38.6	38.3	38.7	40.3	41.6	41.8	41.7	42.0	42.5	42.8	42.6			
120	36.8	35.1	34.6	34.9	35.1	34.7	34.5	34.9	36.9	38.1	38.4	38.2	38.3	38.8	39.2	38.7			
125	32.3	30.5	30.1	30.5	30.7	30.4	30.3	30.7	33.1	34.2	34.4	34.2	34.3	34.6	35.1	34.4			
130	27.4	25.6	25.2	25.8	26.0	25.7	25.7	26.2	28.8	29.8	30.2	29.8	29.8	30.1	30.4	29.6			
135	22.3	20.5	20.2	20.8	21.1	20.9	20.9	21.4	24.1	25.2	25.4	25.1	25.0	25.2	25.5	24.4			
140	17.2	15.6	15.4	15.8	16.1	16.0	16.0	16.6	19.2	20.3	20.6	20.2	20.1	20.2	20.2	19.2			
145	12.4	11.5	11.3	11.6	11.7	11.7	11.7	12.2	14.4	15.5	15.7	15.3	15.2	15.2	15.0	14.0			
150	9.55	9.09	8.90	9.08	9.21	9.19	9.02	9.16	10.3	11.0	11.2	11.0	10.9	10.8	10.7	10.4			
155	7.37	7.09	6.96	7.11	7.21	7.18	7.06	7.18	8.02	8.42	8.56	8.34	8.21	8.12	8.14	7.99			
160	5.79	5.57	5.57	5.66	5.74	5.72	5.63	5.71	6.30	6.58	6.67	6.48	6.34	6.20	6.23	6.14			
165	4.99	4.84	4.82	4.83	4.88	4.90	4.83	4.87	5.25	5.42	5.46	5.33	5.22	5.14	5.17	5.15			
170	4.50	4.43	4.46	4.45	4.45	4.46	4.44	4.46	4.74	4.87	4.87	4.81	4.75	4.69	4.69	4.71			
175	4.20	4.10	4.05	4.10	4.16	4.15	4.15	4.17	4.37	4.47	4.52	4.47	4.46	4.43	4.42	4.37			
180	4.18	4.16	4.09	3.98	3.85	3.77	3.72	3.71	4.17	4.16	4.10	3.96	3.83	3.78	3.70	3.70			

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