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ASD Lighting Corp

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LumCAT: ASD-CAN05-70D50-BZ-PRM

Luminaire: Outdoor Full-Cutoff Wall-Mounted Area Luminaires

Report No:	Voltage(V): 119.9900
Test No: LCZP18020011	Current(A): 0.5770
LampCAT:	Power (W): 68.9600
Lamp flux(lm): 7856.9	PF: 0.9962
Number of Lamps: 1	Ballast type:
Length(mm): 215	Width(mm): 215
Phm Type: C	Height(mm): 15

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Photometric Results

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Lumens(lm): 7856.85  
Efficiency(%): 100.00%  
Lumens(lm)/Power(W): 113.93  
Central intensity(cd): 2121.489  
Maximum intensity(cd): 2121.489  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=141.0  
                                  [C90/270]Total=140.0  
Field angle(10%Imax): [C0/180]Total=167.8  
                                  [C90/270]Total=167.4  
Maximum s/h(1/2): C0\_180=1.34 C90\_270=1.32  
Maximum s/h(1/4): C0\_180=1.54 C90\_270=1.52  
Up flux rate of lamp(%): 0.94%  
Down flux rate of lamp(%): 99.06%  
Up flux rate of LUM(%): 0.94%  
Down flux rate of LUM(%): 99.06%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 68.883%

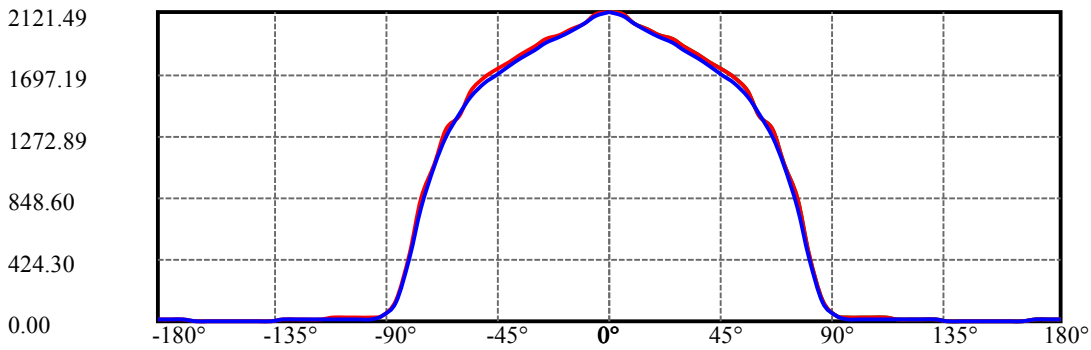
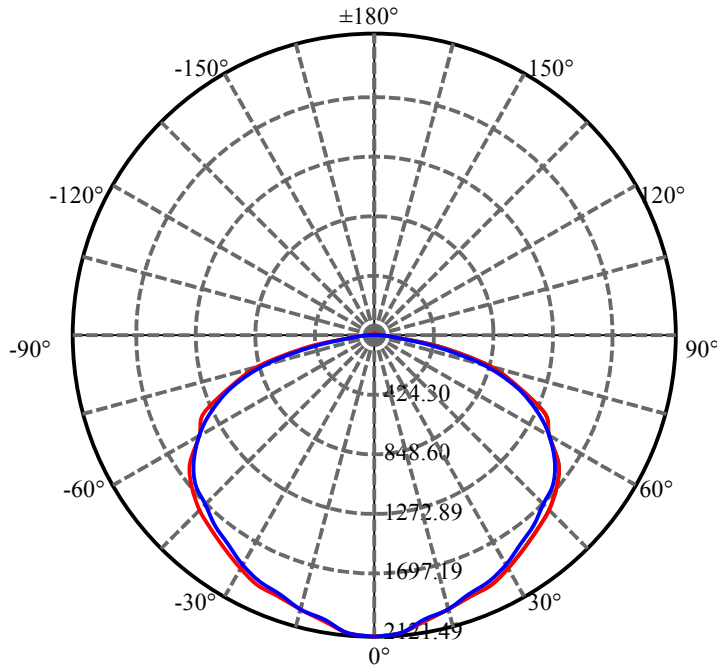
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2121.489	.000	.000	.000%	.000%
5.0	2096.359	50.423	50.423	.642%	.642%
10.0	2024.826	147.428	197.851	1.876%	2.518%
15.0	1968.587	236.887	434.737	3.015%	5.533%
20.0	1931.427	321.416	756.153	4.091%	9.624%
25.0	1898.923	401.733	1157.886	5.113%	14.737%
30.0	1854.374	474.983	1632.869	6.045%	20.783%
35.0	1800.210	538.163	2171.032	6.850%	27.632%
40.0	1743.289	591.206	2762.239	7.525%	35.157%
45.0	1685.500	634.868	3397.107	8.080%	43.238%
50.0	1610.655	666.036	4063.143	8.477%	51.715%
55.0	1507.207	677.927	4741.070	8.628%	60.343%
60.0	1395.661	670.990	5412.060	8.540%	68.883%
65.0	1268.820	647.741	6059.801	8.244%	77.128%
70.0	1110.014	602.336	6662.137	7.666%	84.794%
75.0	918.584	530.243	7192.380	6.749%	91.543%
80.0	476.589	373.309	7565.689	4.751%	96.294%
85.0	140.285	167.619	7733.309	2.133%	98.428%
90.0	40.354	49.460	7782.770	.630%	99.057%
95.0	21.124	16.833	7799.603	.214%	99.271%
100.0	17.005	10.361	7809.963	.132%	99.403%
105.0	15.185	8.613	7818.576	.110%	99.513%
110.0	13.852	7.590	7826.166	.097%	99.609%
115.0	12.530	6.680	7832.846	.085%	99.694%
120.0	10.926	5.702	7838.548	.073%	99.767%
125.0	9.980	4.832	7843.380	.062%	99.829%
130.0	6.828	3.655	7847.035	.047%	99.875%
135.0	3.785	2.145	7849.180	.027%	99.902%
140.0	2.673	1.196	7850.375	.015%	99.918%
145.0	3.131	.968	7851.344	.012%	99.930%
150.0	3.545	.983	7852.327	.013%	99.942%
155.0	4.358	1.000	7853.327	.013%	99.955%
160.0	5.453	1.029	7854.355	.013%	99.968%
165.0	6.399	.977	7855.332	.012%	99.981%
170.0	7.087	.800	7856.132	.010%	99.991%
175.0	7.715	.530	7856.661	.007%	99.998%
180.0	8.163	.190	7856.851	.002%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1632.87	20.78%	20.78%
0-40	2762.24	35.16%	35.16%
0-60	5412.06	68.88%	68.88%
0-90	7782.77	99.06%	99.06%
0-120	7838.55	99.77%	99.77%
0-180	7856.85	100.00%	100.00%
60-90	3041.70	38.71%	38.71%
90-120	105.24	1.34%	1.34%
90-130	113.73	1.45%	1.45%
90-150	119.02	1.51%	1.51%
90-180	123.35	1.57%	1.57%
0-66.87	6285.48	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	197.85
10-20	558.30
20-30	876.72
30-40	1129.37
40-50	1300.90
50-60	1348.92
60-70	1250.08
70-80	903.55
80-90	217.08
90-100	27.19
100-110	16.20
110-120	12.38
120-130	8.49
130-140	3.34
140-150	1.95
150-160	2.03
160-170	1.78
170-180	0.53



C0(Max): ———

C0/C180: ———

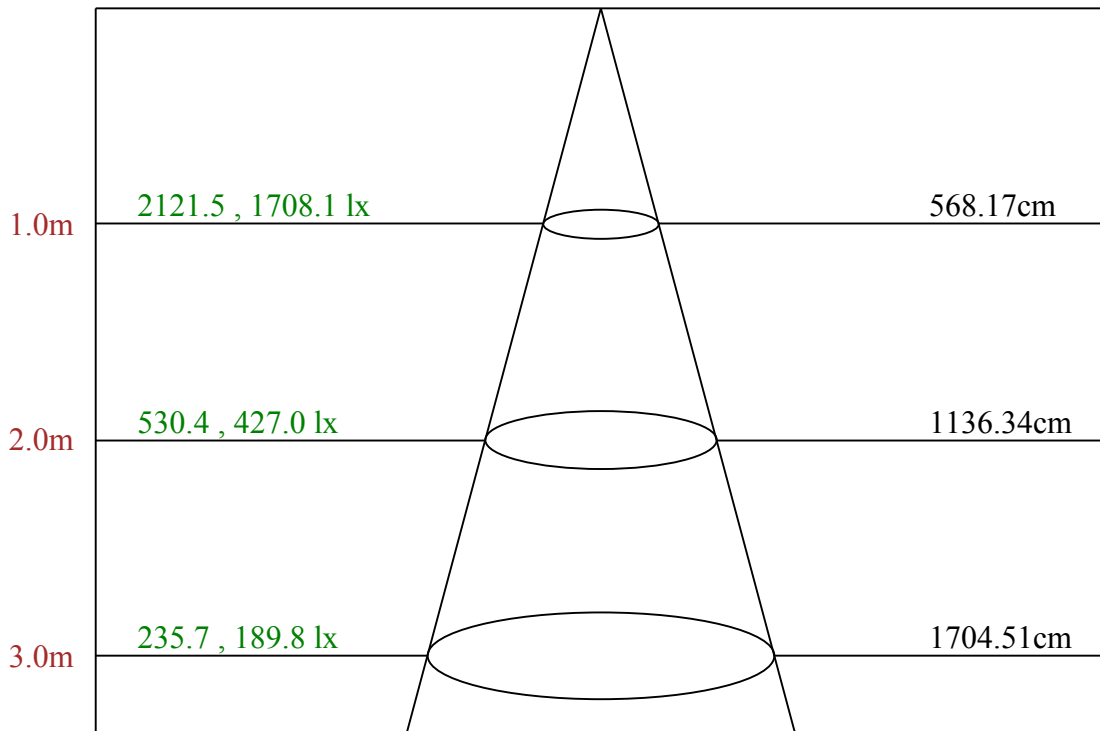
C90/C270: ———

Field angle(10%Imax):C0/180Left:83.9 Right:83.9

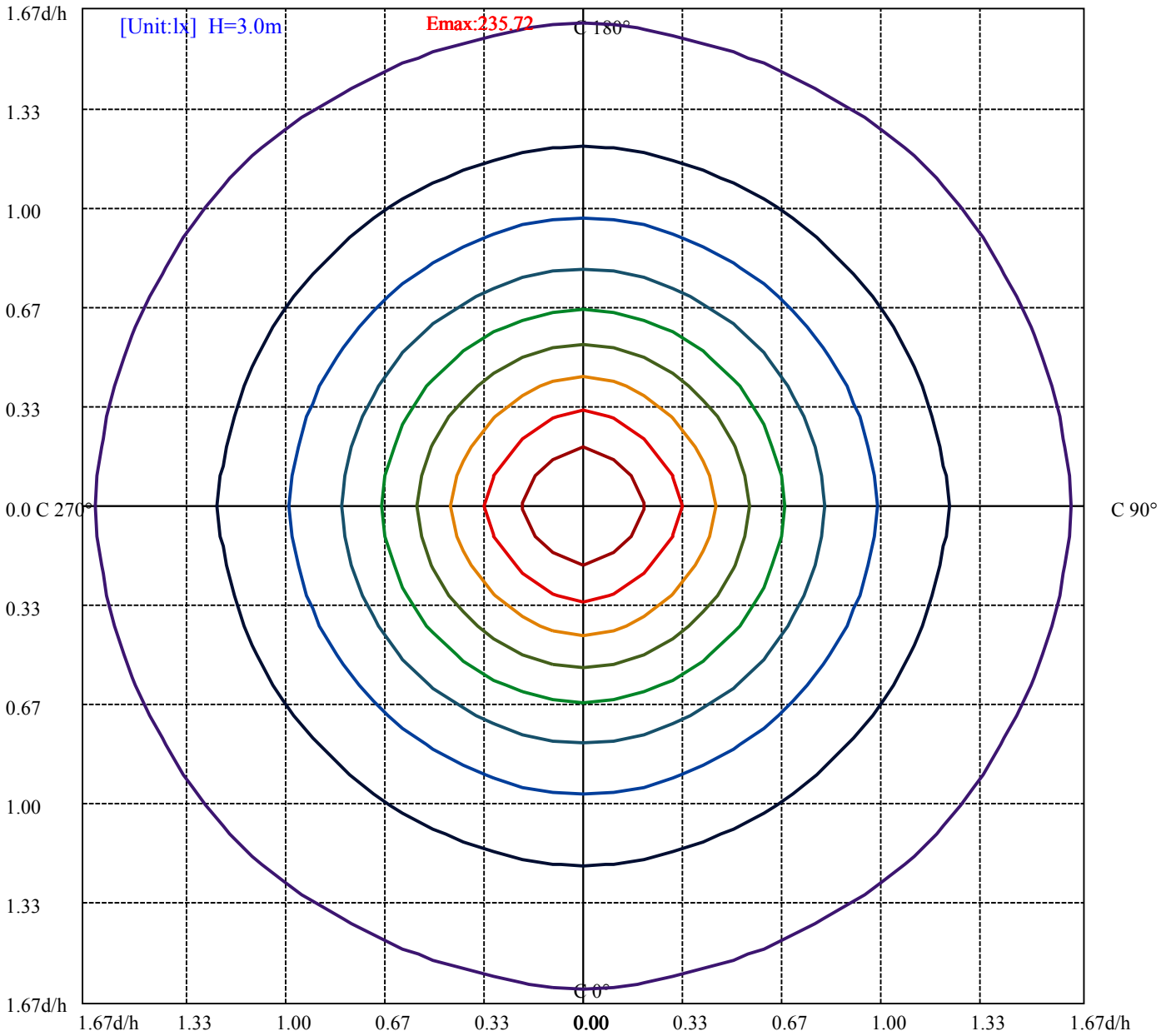
:C90/270Left:83.7 Right:83.7

Beam Angle(50%Imax):C0/180Left:70.5 Right:70.5

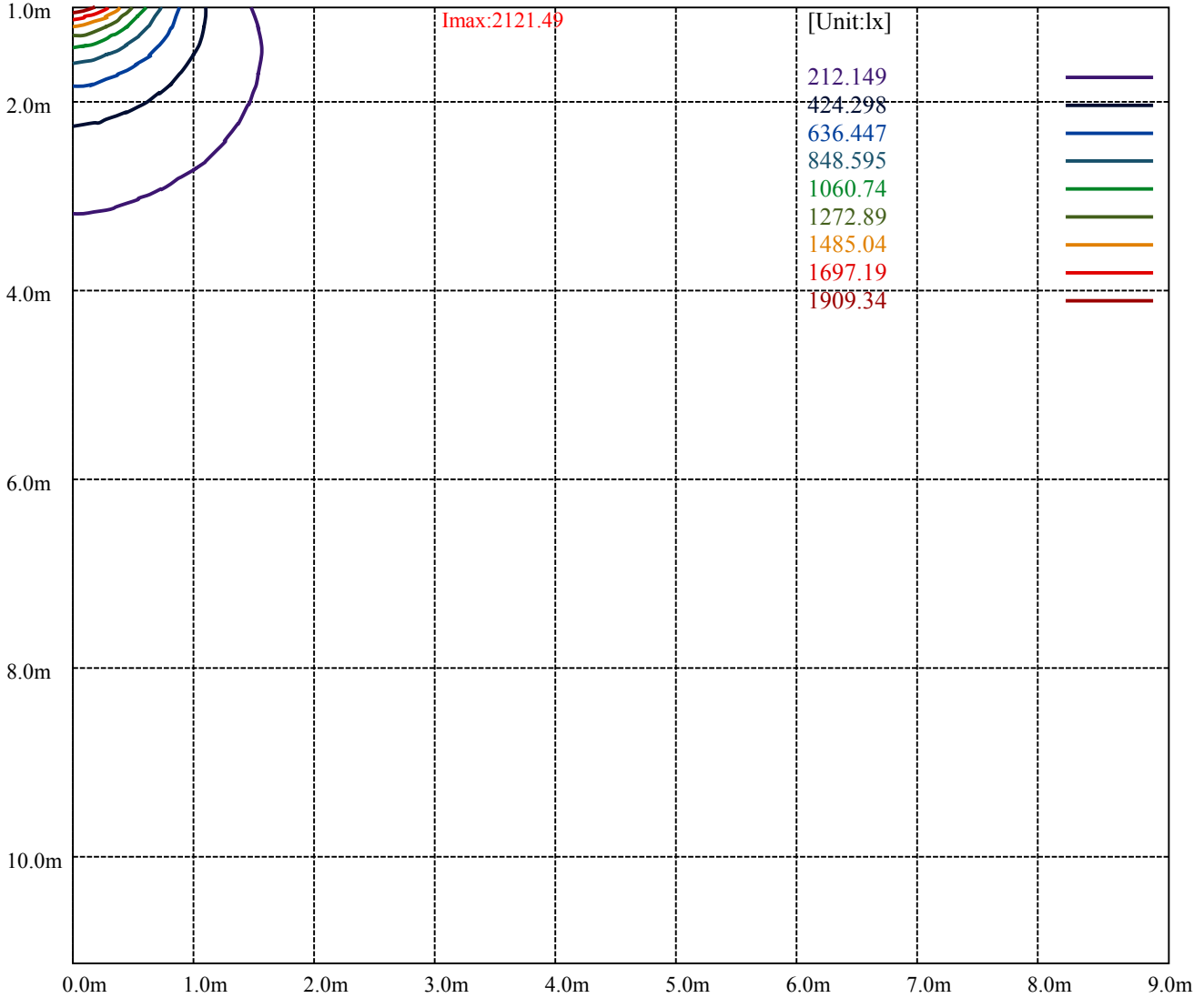
:C90/270Left:70.0 Right:70.0



Max , Ave      Beam angle of C0plane141.22



- (10%Emax) 23.57211
- (20%Emax) 47.14422
- (30%Emax) 70.71622
- (40%Emax) 94.28833
- (50%Emax) 117.86
- (60%Emax) 141.4322
- (70%Emax) 165.0045
- (80%Emax) 188.5767
- (90%Emax) 212.1489



Luminance Limiting Curve(no luminous side)

Luminance Table

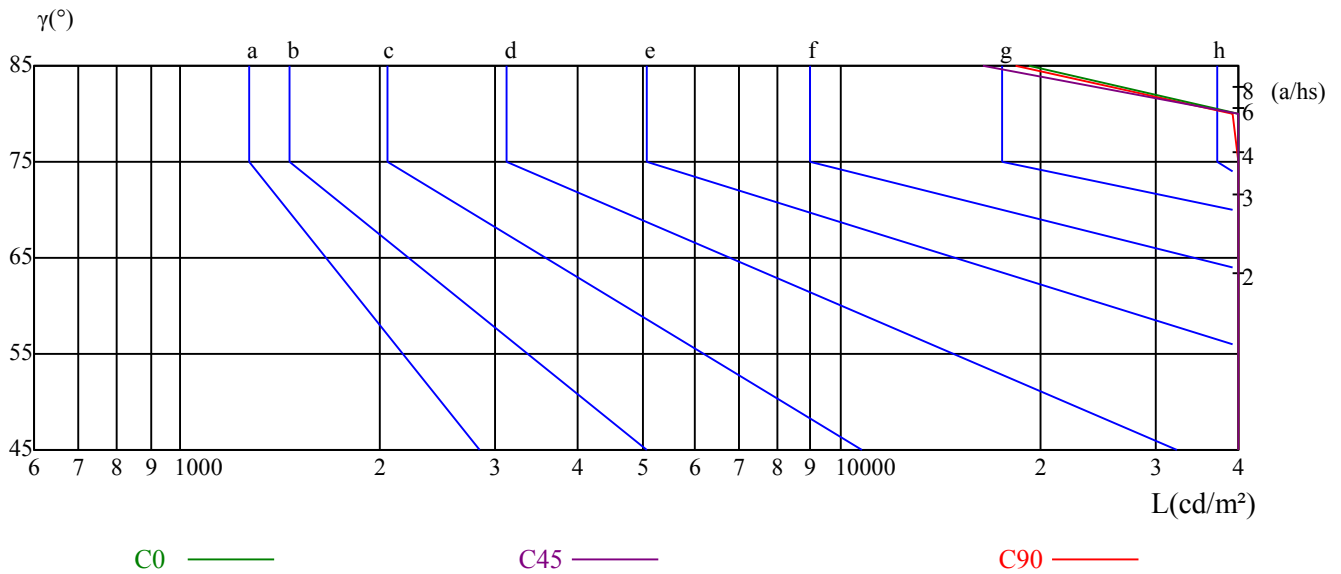
$\gamma$	45	50	55	60	65	70	75	80	85
C0	49527	51824	54233	54637	58881	57525	55820	41625	19213
C45	46417	47905	50198	51712	52541	56710	66117	42557	16379
C90	48346	50849	53089	54755	56498	56320	51569	39140	18376

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
67691	64951	63658	70354	64996	90463	34534	33030	34850

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.01	0.96	0.92	0.99	0.94	0.90	0.94	0.91	0.87	0.90	0.87	0.84	0.86	0.84	0.82	0.79
2	0.86	0.79	0.72	0.84	0.77	0.71	0.81	0.75	0.69	0.77	0.72	0.68	0.74	0.70	0.66	0.64
3	0.75	0.66	0.58	0.73	0.64	0.58	0.70	0.62	0.56	0.67	0.61	0.55	0.64	0.59	0.54	0.52
4	0.65	0.56	0.48	0.64	0.55	0.48	0.61	0.53	0.47	0.59	0.52	0.46	0.56	0.50	0.45	0.43
5	0.58	0.48	0.41	0.57	0.47	0.40	0.54	0.46	0.40	0.52	0.45	0.39	0.50	0.44	0.39	0.36
6	0.52	0.42	0.35	0.51	0.41	0.35	0.49	0.40	0.34	0.47	0.39	0.34	0.45	0.39	0.34	0.31
7	0.46	0.37	0.31	0.46	0.37	0.30	0.44	0.36	0.30	0.42	0.35	0.30	0.41	0.34	0.29	0.27
8	0.42	0.33	0.27	0.41	0.33	0.27	0.40	0.32	0.27	0.39	0.32	0.26	0.37	0.31	0.26	0.24
9	0.39	0.30	0.24	0.38	0.30	0.24	0.37	0.29	0.24	0.35	0.29	0.24	0.34	0.28	0.23	0.21
10	0.35	0.27	0.22	0.35	0.27	0.22	0.34	0.26	0.21	0.33	0.26	0.21	0.32	0.26	0.21	0.19

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Intensity data(cd) Page: 10 Total: 12

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2121.49	2108.76	2039.77	2006.55	1961.43	1935.76	1882.71	1832.77	1784.90
15.0	2121.49	2093.36	2022.26	1977.97	1949.17	1913.04	1867.85	1810.25	1753.68
30.0	2121.49	2094.01	2020.87	1957.90	1916.21	1882.73	1860.11	1801.36	1738.84
45.0	2121.49	2094.87	2022.55	1946.23	1914.06	1884.11	1832.88	1796.71	1738.11
60.0	2121.49	2094.64	2021.63	1956.82	1916.44	1882.93	1848.09	1788.61	1719.39
75.0	2121.49	2097.06	2023.73	1972.18	1939.52	1907.08	1849.97	1787.10	1741.99
90.0	2121.49	2099.70	2036.10	1994.29	1944.92	1911.56	1851.97	1801.71	1750.56
105.0	2121.49	2097.06	2023.73	1972.18	1939.52	1907.08	1849.97	1787.10	1741.99
120.0	2121.49	2094.64	2021.63	1956.82	1916.44	1882.93	1848.09	1788.61	1719.39
135.0	2121.49	2094.87	2022.55	1946.23	1914.06	1884.11	1832.88	1796.71	1738.11
150.0	2121.49	2094.01	2020.87	1957.90	1916.21	1882.73	1860.11	1801.36	1738.84
165.0	2121.49	2093.36	2022.26	1977.97	1949.17	1913.04	1867.85	1810.25	1753.68
180.0	2121.49	2108.76	2039.77	2006.55	1961.43	1935.76	1882.71	1832.77	1784.90
195.0	2121.49	2093.36	2022.26	1977.97	1949.17	1913.04	1867.85	1810.25	1753.68
210.0	2121.49	2094.01	2020.87	1957.90	1916.21	1882.73	1860.11	1801.36	1738.84
225.0	2121.49	2094.87	2022.55	1946.23	1914.06	1884.11	1832.88	1796.71	1738.11
240.0	2121.49	2094.64	2021.63	1956.82	1916.44	1882.93	1848.09	1788.61	1719.39
255.0	2121.49	2097.06	2023.73	1972.18	1939.52	1907.08	1849.97	1787.10	1741.99
270.0	2121.49	2099.70	2036.10	1994.29	1944.92	1911.56	1851.97	1801.71	1750.56
285.0	2121.49	2097.06	2023.73	1972.18	1939.52	1907.08	1849.97	1787.10	1741.99
300.0	2121.49	2094.64	2021.63	1956.82	1916.44	1882.93	1848.09	1788.61	1719.39
315.0	2121.49	2094.87	2022.55	1946.23	1914.06	1884.11	1832.88	1796.71	1738.11
330.0	2121.49	2094.01	2020.87	1957.90	1916.21	1882.73	1860.11	1801.36	1738.84
345.0	2121.49	2093.36	2022.26	1977.97	1949.17	1913.04	1867.85	1810.25	1753.68
360.0	2121.49	2108.76	2039.77	2006.55	1961.43	1935.76	1882.71	1832.77	1784.90

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1731.78	1667.87	1581.17	1415.40	1322.38	1083.80	841.71	466.32	139.13
15.0	1704.76	1618.67	1490.84	1414.98	1297.19	1099.85	873.88	475.40	142.24
30.0	1683.87	1599.09	1505.05	1379.57	1277.52	1141.30	985.17	481.54	141.68
45.0	1666.87	1590.78	1518.46	1399.43	1243.59	1139.62	1082.29	532.75	140.40
60.0	1669.12	1591.85	1492.28	1373.42	1248.91	1121.32	940.37	473.56	144.88
75.0	1677.26	1611.37	1472.11	1389.64	1250.10	1085.56	820.12	443.89	136.40
90.0	1690.48	1636.48	1547.84	1418.46	1268.85	1061.10	777.61	438.49	133.07
105.0	1677.26	1611.37	1472.11	1389.64	1250.10	1085.56	820.12	443.89	136.40
120.0	1669.12	1591.85	1492.28	1373.42	1248.91	1121.32	940.37	473.56	144.88
135.0	1666.87	1590.78	1518.46	1399.43	1243.59	1139.62	1082.29	532.75	140.40
150.0	1683.87	1599.09	1505.05	1379.57	1277.52	1141.30	985.17	481.54	141.68
165.0	1704.76	1618.67	1490.84	1414.98	1297.19	1099.85	873.88	475.40	142.24
180.0	1731.78	1667.87	1581.17	1415.40	1322.38	1083.80	841.71	466.32	139.13
195.0	1704.76	1618.67	1490.84	1414.98	1297.19	1099.85	873.88	475.40	142.24
210.0	1683.87	1599.09	1505.05	1379.57	1277.52	1141.30	985.17	481.54	141.68
225.0	1666.87	1590.78	1518.46	1399.43	1243.59	1139.62	1082.29	532.75	140.40
240.0	1669.12	1591.85	1492.28	1373.42	1248.91	1121.32	940.37	473.56	144.88
255.0	1677.26	1611.37	1472.11	1389.64	1250.10	1085.56	820.12	443.89	136.40
270.0	1690.48	1636.48	1547.84	1418.46	1268.85	1061.10	777.61	438.49	133.07
285.0	1677.26	1611.37	1472.11	1389.64	1250.10	1085.56	820.12	443.89	136.40
300.0	1669.12	1591.85	1492.28	1373.42	1248.91	1121.32	940.37	473.56	144.88
315.0	1666.87	1590.78	1518.46	1399.43	1243.59	1139.62	1082.29	532.75	140.40
330.0	1683.87	1599.09	1505.05	1379.57	1277.52	1141.30	985.17	481.54	141.68
345.0	1704.76	1618.67	1490.84	1414.98	1297.19	1099.85	873.88	475.40	142.24
360.0	1731.78	1667.87	1581.17	1415.40	1322.38	1083.80	841.71	466.32	139.13

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	40.71	25.85	22.98	21.35	19.86	18.49	15.58	15.80	10.84
15.0	40.84	24.72	21.64	19.29	17.34	15.79	14.35	14.73	8.86
30.0	41.79	22.45	18.29	15.61	13.54	11.79	10.20	7.74	5.50
45.0	42.35	20.81	14.93	12.82	11.31	9.85	8.07	5.81	2.82
60.0	40.65	18.84	13.98	12.47	11.56	10.10	8.61	7.46	5.35
75.0	37.55	18.20	14.46	13.22	12.64	11.89	10.89	10.69	8.20
90.0	37.18	17.61	14.50	14.05	13.57	13.03	11.30	11.12	9.65
105.0	37.55	18.20	14.46	13.22	12.64	11.89	10.89	10.69	8.20
120.0	40.65	18.84	13.98	12.47	11.56	10.10	8.61	7.46	5.35
135.0	42.35	20.81	14.93	12.82	11.31	9.85	8.07	5.81	2.82
150.0	41.79	22.45	18.29	15.61	13.54	11.79	10.20	7.74	5.50
165.0	40.84	24.72	21.64	19.29	17.34	15.79	14.35	14.73	8.86
180.0	40.71	25.85	22.98	21.35	19.86	18.49	15.58	15.80	10.84
195.0	40.84	24.72	21.64	19.29	17.34	15.79	14.35	14.73	8.86
210.0	41.79	22.45	18.29	15.61	13.54	11.79	10.20	7.74	5.50
225.0	42.35	20.81	14.93	12.82	11.31	9.85	8.07	5.81	2.82
240.0	40.65	18.84	13.98	12.47	11.56	10.10	8.61	7.46	5.35
255.0	37.55	18.20	14.46	13.22	12.64	11.89	10.89	10.69	8.20
270.0	37.18	17.61	14.50	14.05	13.57	13.03	11.30	11.12	9.65
285.0	37.55	18.20	14.46	13.22	12.64	11.89	10.89	10.69	8.20
300.0	40.65	18.84	13.98	12.47	11.56	10.10	8.61	7.46	5.35
315.0	42.35	20.81	14.93	12.82	11.31	9.85	8.07	5.81	2.82
330.0	41.79	22.45	18.29	15.61	13.54	11.79	10.20	7.74	5.50
345.0	40.84	24.72	21.64	19.29	17.34	15.79	14.35	14.73	8.86
360.0	40.71	25.85	22.98	21.35	19.86	18.49	15.58	15.80	10.84
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	5.88	2.70	3.18	3.62	4.37	5.48	6.41	7.12	7.83
15.0	4.76	2.68	3.17	3.54	4.34	5.52	6.40	7.11	7.69
30.0	2.59	2.68	3.13	3.57	4.37	5.45	6.38	7.12	7.74
45.0	2.42	2.68	3.11	3.53	4.35	5.44	6.43	7.05	7.65
60.0	2.64	2.64	3.08	3.53	4.37	5.39	6.37	7.06	7.70
75.0	4.60	2.62	3.16	3.51	4.33	5.47	6.40	7.09	7.73
90.0	5.51	2.76	3.11	3.56	4.40	5.43	6.40	7.07	7.74
105.0	4.60	2.62	3.16	3.51	4.33	5.47	6.40	7.09	7.73
120.0	2.64	2.64	3.08	3.53	4.37	5.39	6.37	7.06	7.70
135.0	2.42	2.68	3.11	3.53	4.35	5.44	6.43	7.05	7.65
150.0	2.59	2.68	3.13	3.57	4.37	5.45	6.38	7.12	7.74
165.0	4.76	2.68	3.17	3.54	4.34	5.52	6.40	7.11	7.69
180.0	5.88	2.70	3.18	3.62	4.37	5.48	6.41	7.12	7.83
195.0	4.76	2.68	3.17	3.54	4.34	5.52	6.40	7.11	7.69
210.0	2.59	2.68	3.13	3.57	4.37	5.45	6.38	7.12	7.74
225.0	2.42	2.68	3.11	3.53	4.35	5.44	6.43	7.05	7.65
240.0	2.64	2.64	3.08	3.53	4.37	5.39	6.37	7.06	7.70
255.0	4.60	2.62	3.16	3.51	4.33	5.47	6.40	7.09	7.73
270.0	5.51	2.76	3.11	3.56	4.40	5.43	6.40	7.07	7.74
285.0	4.60	2.62	3.16	3.51	4.33	5.47	6.40	7.09	7.73
300.0	2.64	2.64	3.08	3.53	4.37	5.39	6.37	7.06	7.70
315.0	2.42	2.68	3.11	3.53	4.35	5.44	6.43	7.05	7.65
330.0	2.59	2.68	3.13	3.57	4.37	5.45	6.38	7.12	7.74
345.0	4.76	2.68	3.17	3.54	4.34	5.52	6.40	7.11	7.69
360.0	5.88	2.70	3.18	3.62	4.37	5.48	6.41	7.12	7.83

Intensity data(cd)

C/γ(°)	180.0
0.0	8.23
15.0	8.24
30.0	8.07
45.0	8.16
60.0	8.12
75.0	8.18
90.0	8.18
105.0	8.18
120.0	8.12
135.0	8.16
150.0	8.07
165.0	8.24
180.0	8.23
195.0	8.24
210.0	8.07
225.0	8.16
240.0	8.12
255.0	8.18
270.0	8.18
285.0	8.18
300.0	8.12
315.0	8.16
330.0	8.07
345.0	8.24
360.0	8.23