

Test Report of Luminaire

Report No.:

Luminaire Type	8538-80		
Lamp Type	LED		
Client		EUT NO.	CCT: 3011K, CRI: 83.6Ra
Luminaire Parameters:			
Voltage	120.0	Current	0.137
Power:	16.3	Power Factor	0.990
Frequency:	60Hz	Tc	3000K
Photometric Parameters			
Luminaire Flux	1242.22 lm	Luminaire Eff.	Data imperfect...!
Max Intensity	508.603cd	Central Intensity	508.603cd
Angle of Max Intensity:	C:0 G:0		
Upward Flux Ratio	0.01%		
Downward Flux Ratio	-124221.8%		
50%Imax Beam Width	C0_180[49.4 , -48.7] C90_270[48.5 , -49.3]		
Remark			

Luminaire Figure



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Photometric Data Table

[Unit:cd] 8538-80

C\G	0	5	10	15	20	25	30	35	40	45
0	508.6	504.1	491.8	476.0	453.3	428.7	397.1	362.0	325.2	287.4
5	508.6	505.0	492.8	475.9	453.9	429.5	398.0	363.1	326.6	288.6
10	508.6	504.8	493.1	476.4	454.9	429.9	398.5	364.4	327.3	289.3
15	508.6	504.7	492.7	477.5	455.0	431.1	399.9	364.7	328.1	290.4
20	508.6	505.4	493.6	477.8	455.6	431.4	399.9	365.6	329.0	291.0
25	508.6	504.9	493.2	478.0	456.3	431.4	400.5	366.1	329.0	291.0
30	508.6	505.3	493.8	478.1	455.8	432.0	400.3	365.7	329.2	291.4
35	508.6	505.4	493.2	478.1	456.2	431.7	400.7	366.0	329.3	291.1
40	508.6	505.1	493.6	478.0	456.4	431.2	400.0	365.6	328.5	290.4
45	508.6	505.8	493.2	477.7	455.6	431.4	399.9	364.6	328.0	290.0
50	508.6	504.8	493.0	476.8	455.6	430.4	398.7	364.3	327.3	289.0
55	508.6	505.2	493.1	476.6	455.2	429.5	398.1	363.1	325.8	287.8
60	508.6	505.2	492.4	476.8	453.8	429.3	397.3	361.8	325.0	287.0
65	508.6	504.3	492.5	476.6	453.9	427.9	395.7	361.2	323.9	285.6
70	508.6	504.8	491.6	477.0	452.8	427.4	395.1	359.8	322.4	284.4
75	508.6	504.0	491.5	476.7	452.3	426.5	394.1	358.8	321.7	283.7
80	508.6	503.9	491.1	476.6	451.7	425.2	392.9	358.1	320.6	282.4
85	508.6	503.9	490.3	475.8	450.6	424.9	392.1	356.9	319.6	281.7
90	508.6	503.4	492.6	475.0	450.3	424.0	391.8	356.2	319.2	281.1
95	508.6	501.2	491.6	474.8	449.4	423.1	390.8	355.8	318.4	280.2
100	508.6	500.6	491.5	473.9	448.7	423.0	390.5	354.9	317.8	280.0
105	508.6	500.9	489.6	473.8	448.8	422.2	389.9	354.7	317.7	279.6
110	508.6	500.4	490.5	473.5	448.0	421.7	389.2	354.3	316.9	279.0
115	508.6	500.2	491.0	473.2	447.3	421.7	389.4	353.5	316.8	278.9
120	508.6	501.4	490.3	472.8	447.7	421.0	388.6	353.6	316.7	278.6
125	508.6	500.1	490.4	472.4	447.1	420.8	388.7	353.4	316.1	278.1
130	508.6	499.7	490.4	472.3	446.9	421.0	388.3	353.0	316.1	278.2
135	508.6	502.0	487.8	472.6	447.4	420.5	388.5	353.3	316.2	278.0
140	508.6	501.7	488.4	470.9	446.9	420.8	388.5	353.2	315.8	277.9
145	508.6	502.2	488.4	470.8	447.2	421.1	388.6	353.2	316.3	278.5
150	508.6	501.8	488.3	470.6	447.7	420.9	388.7	353.8	316.5	278.5
155	508.6	502.9	488.8	471.1	447.2	421.6	389.2	353.9	316.7	278.9
160	508.6	502.3	488.8	471.7	448.4	422.1	389.7	354.3	317.5	279.6
165	508.6	503.0	489.2	471.4	448.5	422.2	389.9	355.3	318.0	280.0
170	508.6	502.6	489.9	472.4	448.8	423.3	391.1	355.6	318.6	280.8
175	508.6	503.4	491.5	472.4	450.0	423.9	391.5	356.6	319.8	281.9
180	508.6	503.0	492.1	473.3	450.6	424.5	393.0	357.8	320.6	282.6
185	508.6	503.7	492.5	473.6	451.1	425.9	393.4	358.5	321.6	283.9
190	508.6	503.3	492.7	474.8	452.4	426.5	394.9	360.0	323.2	285.3
195	508.6	503.8	493.8	474.9	452.7	427.7	396.0	361.2	324.2	286.1
200	508.6	504.1	493.4	475.7	453.5	428.6	396.7	361.9	325.3	287.5
205	508.6	502.4	492.0	476.0	454.0	428.2	397.1	362.3	325.5	287.5
210	508.6	502.2	491.7	475.3	453.3	428.6	396.8	362.2	325.1	287.2
215	508.6	501.9	491.5	476.1	453.6	428.5	396.7	361.9	325.3	287.5
220	508.6	502.3	492.1	475.1	453.9	428.2	397.1	362.3	325.5	287.4
225	508.6	503.0	491.3	475.6	453.2	428.7	396.6	362.1	325.1	287.2
230	508.6	502.1	491.9	475.2	453.7	428.5	397.0	361.9	325.4	287.6
235	508.6	502.6	491.9	476.7	453.6	428.3	396.9	362.4	325.4	287.4

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Photometric Data Table [Unit:cd] 8538-80

240	508.6	503.2	491.6	475.8	453.1	428.7	396.6	362.0	325.2	287.3
245	508.6	504.1	492.1	475.2	453.7	428.4	397.1	362.1	325.5	287.6
250	508.6	504.4	491.8	475.7	453.6	428.3	396.6	362.4	325.4	287.4
255	508.6	503.7	491.9	475.4	453.5	428.7	397.0	362.0	325.2	287.3
260	508.6	503.8	492.9	475.6	453.7	428.2	396.9	362.2	325.6	287.6
265	508.6	504.5	491.6	475.7	453.5	428.4	396.8	362.4	325.3	287.3
270	508.6	503.8	492.1	475.6	453.5	428.7	397.2	362.0	325.2	287.3
275	508.6	504.0	491.9	475.6	453.8	428.2	396.7	362.3	325.5	287.6
280	508.6	504.3	491.6	475.5	453.3	428.5	397.0	362.4	325.2	287.3
285	508.6	504.4	492.0	475.7	453.4	428.7	396.9	361.9	325.3	287.5
290	508.6	503.8	492.8	475.3	454.1	428.1	396.7	362.3	325.5	287.6
295	508.6	503.9	493.4	475.6	453.4	428.6	397.2	362.2	325.1	287.3
300	508.6	504.5	491.5	475.9	453.6	428.6	396.6	361.7	325.3	287.5
305	508.6	504.1	491.4	475.2	453.8	428.3	397.0	362.4	325.6	287.6
310	508.6	504.1	491.8	475.7	454.4	428.8	396.9	362.1	325.2	287.3
315	508.6	503.7	491.5	475.2	453.6	428.6	396.8	362.0	325.5	287.7
320	508.6	503.9	493.8	475.8	453.6	428.2	397.2	362.4	325.6	287.5
325	508.6	504.3	492.0	475.6	453.4	428.7	396.7	362.0	325.2	287.3
330	508.6	504.1	492.9	477.4	453.9	428.4	397.0	362.0	325.5	287.6
335	508.6	501.5	492.1	477.8	453.8	428.3	396.9	362.4	325.4	287.4
340	508.6	504.2	493.8	475.5	453.5	428.8	396.7	362.0	325.2	287.3
345	508.6	502.5	494.2	477.3	455.8	428.3	397.2	362.1	325.6	287.6
350	508.6	502.4	494.3	475.6	455.5	428.4	396.7	362.4	325.3	287.4
355	508.6	501.4	494.0	475.8	455.1	428.8	397.1	362.0	325.3	287.4
360	508.6	504.1	491.8	476.0	453.3	428.7	397.1	362.0	325.2	287.4

C\G	50	55	60	65	70	75	80	85	90
0	249.4	211.5	174.6	138.8	104.5	71.8	42.4	18.3	1.6
5	250.1	212.6	175.5	139.7	105.0	72.4	42.9	18.6	1.7
10	251.2	213.3	176.4	140.3	105.7	73.0	43.3	18.9	1.8
15	252.1	214.1	176.9	140.8	106.3	73.3	43.5	19.0	1.9
20	252.4	214.8	177.4	141.5	106.5	73.6	43.8	19.2	2.0
25	253.0	214.8	177.9	141.6	106.8	73.8	43.9	19.3	2.1
30	252.9	215.1	177.7	141.6	106.9	73.8	44.0	19.3	2.1
35	252.6	214.9	177.7	141.6	106.7	73.8	44.0	19.4	2.1
40	252.4	214.3	177.4	141.2	106.6	73.6	43.8	19.3	2.0
45	251.4	213.9	176.6	140.6	106.0	73.1	43.5	19.1	2.0
50	250.8	212.9	175.9	140.0	105.3	72.6	43.1	18.8	1.9
55	249.7	211.8	175.0	139.0	104.7	71.9	42.5	18.4	1.7
60	248.4	211.0	173.8	138.1	103.7	71.1	41.8	17.9	1.6
65	247.5	209.7	172.9	137.2	102.8	70.3	41.2	17.3	1.5
70	246.1	208.5	171.8	136.2	102.0	69.5	40.4	16.8	1.3
75	245.2	207.7	170.7	135.2	101.0	68.6	39.7	16.3	1.3
80	244.4	206.6	170.1	134.3	100.2	67.9	39.0	15.7	1.3
85	243.4	205.9	169.2	133.7	99.4	67.0	38.2	15.1	1.2
90	242.9	205.3	168.5	132.8	98.6	66.4	37.6	14.6	1.2
95	242.4	204.8	168.1	132.3	98.0	65.8	37.0	14.1	1.2
100	241.7	204.1	167.4	131.7	97.4	65.1	36.4	13.7	1.2

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Photometric Data Table

[Unit:cd] 8538-80

105	241.5	204.0	167.0	131.2	96.8	64.5	35.9	13.3	1.2
110	241.0	203.3	166.7	130.8	96.4	64.1	35.3	12.9	1.1
115	240.5	203.2	166.1	130.3	95.9	63.6	34.9	12.6	1.2
120	240.4	202.6	165.8	129.9	95.6	63.3	34.7	12.3	1.2
125	240.1	202.6	165.7	129.9	95.5	63.2	34.6	12.3	1.2
130	239.9	202.3	165.4	129.6	95.3	63.1	34.6	12.4	1.2
135	240.1	202.3	165.6	129.7	95.4	63.3	34.8	12.5	1.2
140	239.9	202.6	165.7	129.9	95.7	63.6	35.1	12.8	1.2
145	240.2	202.5	165.8	130.1	96.0	63.9	35.5	13.0	1.3
150	240.7	203.1	166.4	130.6	96.5	64.5	36.0	13.4	1.3
155	240.8	203.4	166.8	131.2	97.1	65.0	36.5	13.8	1.3
160	241.4	204.1	167.2	131.7	97.6	65.6	37.1	14.2	1.3
165	242.2	204.5	168.1	132.5	98.4	66.4	37.8	14.7	1.3
170	242.7	205.5	168.8	133.3	99.3	67.2	38.4	15.2	1.3
175	243.7	206.1	169.6	134.1	100.0	68.0	39.2	15.7	1.3
180	244.8	207.3	170.7	135.1	101.0	68.8	39.9	16.3	1.3
185	245.6	208.4	171.5	136.0	101.9	69.5	40.6	16.8	1.3
190	247.1	209.3	172.7	137.0	102.7	70.4	41.3	17.4	1.4
195	248.1	210.6	173.7	137.9	103.7	71.2	41.9	17.9	1.5
200	249.1	211.5	174.6	138.9	104.4	71.8	42.4	18.2	1.6
205	249.4	211.4	174.7	138.8	104.4	71.8	42.4	18.3	1.6
210	249.2	211.7	174.7	138.8	104.5	71.8	42.4	18.3	1.6
215	249.2	211.5	174.5	138.9	104.3	71.8	42.4	18.3	1.6
220	249.4	211.4	174.7	138.7	104.3	71.9	42.4	18.3	1.6
225	249.2	211.7	174.7	138.8	104.4	71.8	42.4	18.3	1.6
230	249.2	211.5	174.5	138.9	104.3	71.8	42.4	18.3	1.6
235	249.4	211.5	174.7	138.7	104.4	71.9	42.4	18.3	1.6
240	249.1	211.7	174.6	138.8	104.4	71.8	42.4	18.3	1.6
245	249.3	211.4	174.6	138.9	104.3	71.8	42.4	18.3	1.6
250	249.4	211.6	174.8	138.8	104.4	71.9	42.4	18.3	1.6
255	249.1	211.7	174.6	138.9	104.4	71.8	42.4	18.3	1.6
260	249.3	211.4	174.6	138.9	104.3	71.8	42.4	18.3	1.6
265	249.3	211.6	174.8	138.8	104.4	71.9	42.4	18.3	1.6
270	249.1	211.7	174.5	138.9	104.4	71.8	42.4	18.3	1.6
275	249.4	211.5	174.7	138.9	104.3	71.8	42.4	18.3	1.6
280	249.2	211.7	174.7	138.8	104.4	71.8	42.4	18.3	1.6
285	249.1	211.6	174.5	138.9	104.4	71.8	42.4	18.3	1.6
290	249.3	211.5	174.7	138.8	104.3	71.8	42.5	18.3	1.6
295	249.2	211.7	174.7	138.8	104.5	71.8	42.4	18.3	1.6
300	249.2	211.6	174.5	138.9	104.4	71.8	42.4	18.3	1.6
305	249.5	211.5	174.7	138.8	104.4	71.9	42.5	18.3	1.6
310	249.2	211.7	174.6	138.8	104.5	71.8	42.4	18.3	1.6
315	249.2	211.5	174.6	138.9	104.3	71.8	42.4	18.3	1.6
320	249.4	211.5	174.8	138.8	104.4	71.9	42.4	18.3	1.6
325	249.2	211.8	174.6	138.8	104.5	71.8	42.4	18.3	1.6
330	249.3	211.5	174.6	138.9	104.3	71.8	42.4	18.3	1.6
335	249.5	211.7	174.7	138.8	104.4	71.9	42.5	18.3	1.6
340	249.1	211.7	174.6	138.9	104.5	71.4	42.4	18.3	1.6
345	249.3	211.5	174.6	138.9	104.3	71.8	42.4	18.3	1.6

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Photometric Data Table

[Unit:cd] 8538-80

350	249.4	211.6	174.7	138.8	104.4	71.9	42.5	18.3	1.6
355	249.2	211.7	174.5	138.9	104.4	71.8	42.4	18.3	1.6
360	249.4	211.5	174.6	138.8	104.5	71.8	42.4	18.3	1.6

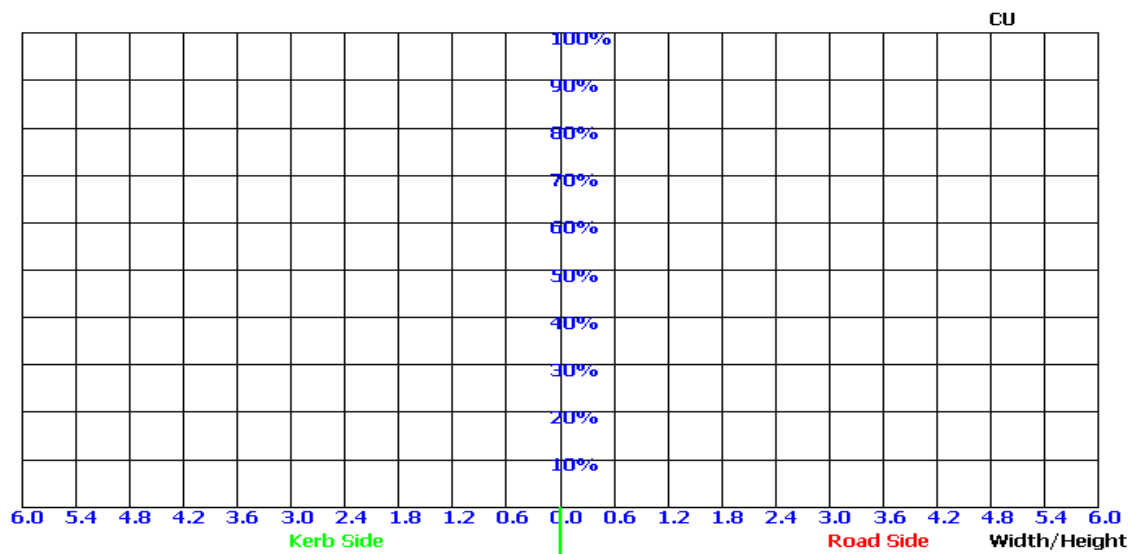
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Zonal Flux 8538-80

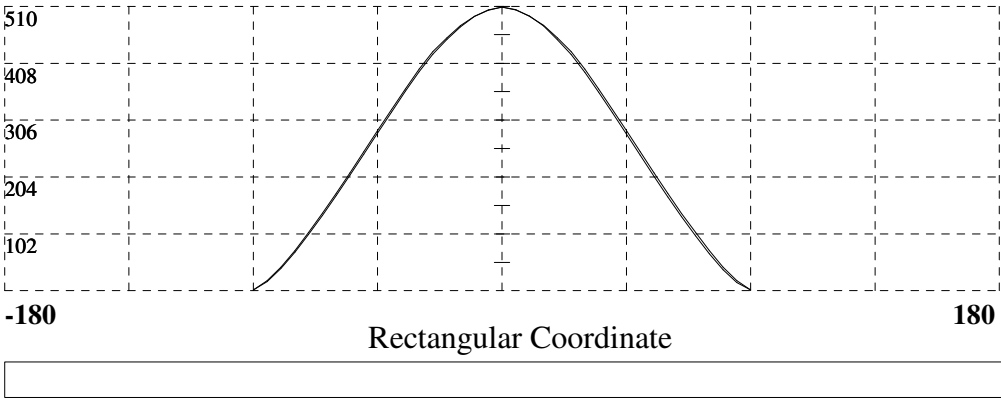
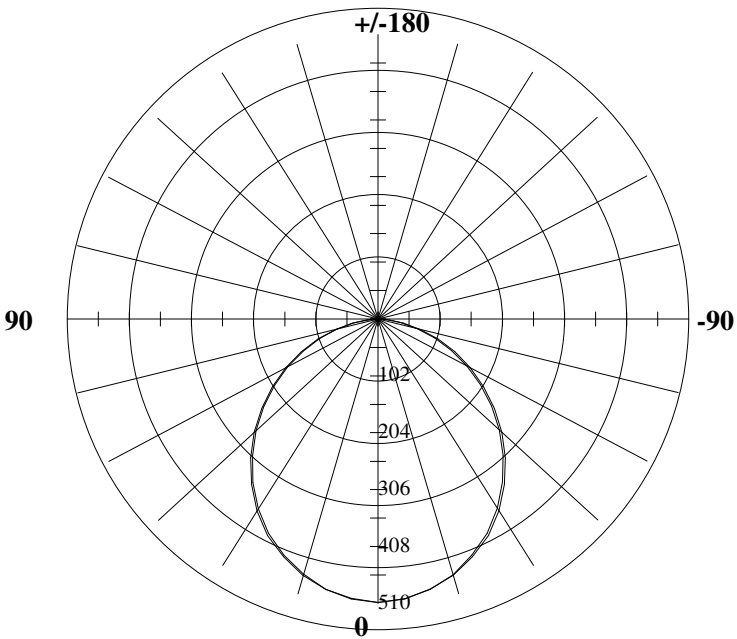
Gamma [°]	I_{mean} [cd]	Zonal Flux [lm]	Sum.Flux [lm]	Zonal Flux [%]	Sum.Flux [%]
0	508.60	0.00	0.00	0.00	0.00
5	503.32	12.10	12.10	-1209.73	-1209.73
10	491.83	35.60	47.70	-3559.96	-4769.69
15	475.18	57.36	105.06	-5736.24	-10505.93
20	452.41	76.45	181.51	-7644.63	-18150.55
25	426.94	92.23	273.73	-9222.75	-27373.30
30	395.14	104.03	377.77	-10403.49	-37776.80
35	360.22	111.23	489.00	-11123.24	-48900.04
40	323.32	114.04	603.04	-11404.37	-60304.41
45	285.36	112.70	715.75	-11270.17	-71574.57
50	247.19	107.61	823.35	-10760.87	-82335.43
55	209.52	99.30	922.66	-9930.29	-92265.72
60	172.63	88.33	1010.99	-8833.20	-101098.93
65	136.83	75.23	1086.22	-7522.82	-108621.70
70	102.44	60.58	1146.80	-6058.38	-114680.02
75	69.93	45.06	1191.86	-4505.59	-119185.56
80	40.73	29.61	1221.47	-2961.16	-122146.66
85	16.98	15.68	1237.15	-1568.18	-123714.95
90	1.53	5.07	1242.22	-506.70	-124221.72

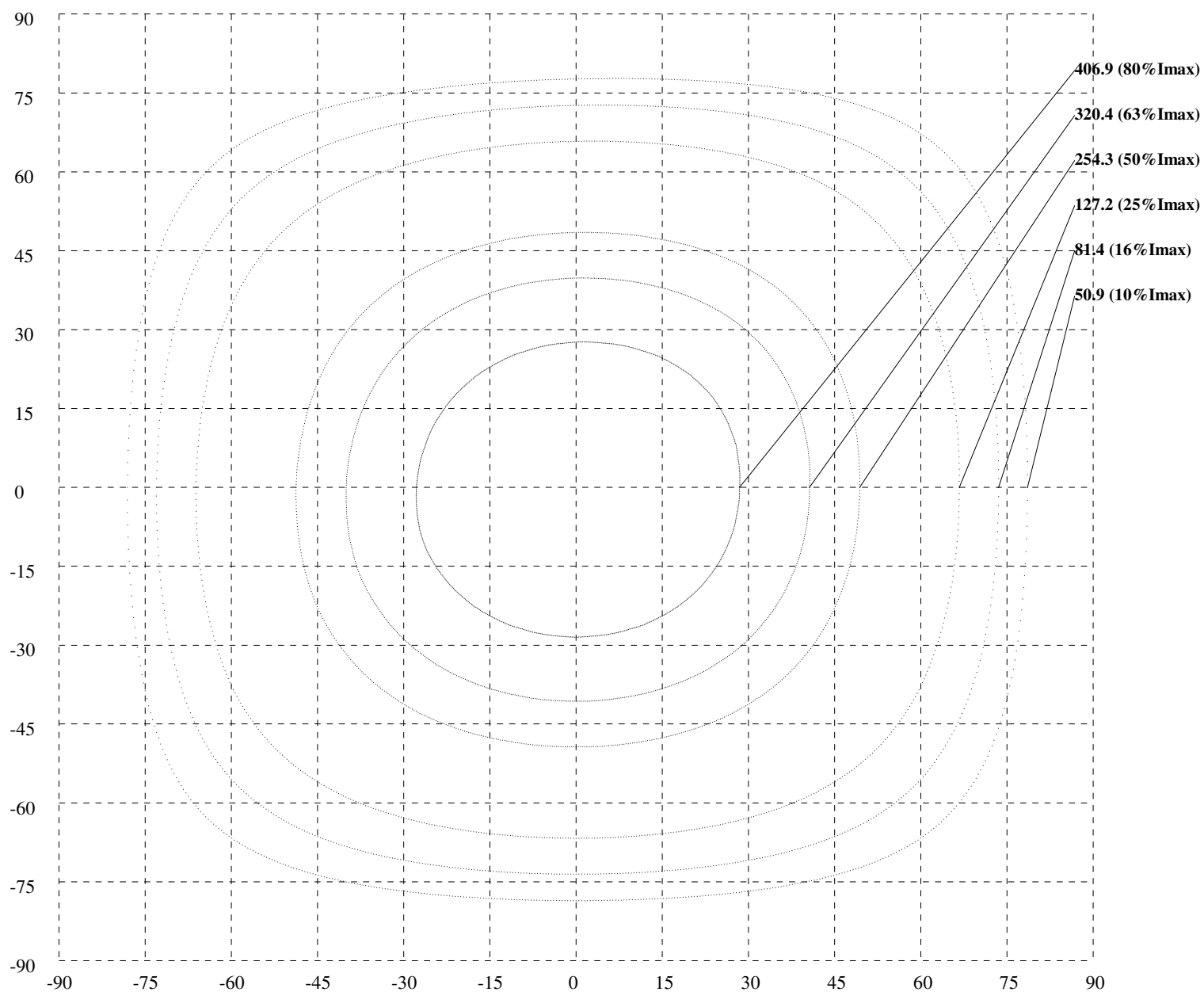
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Coefficient Utilization Curve 8538-80

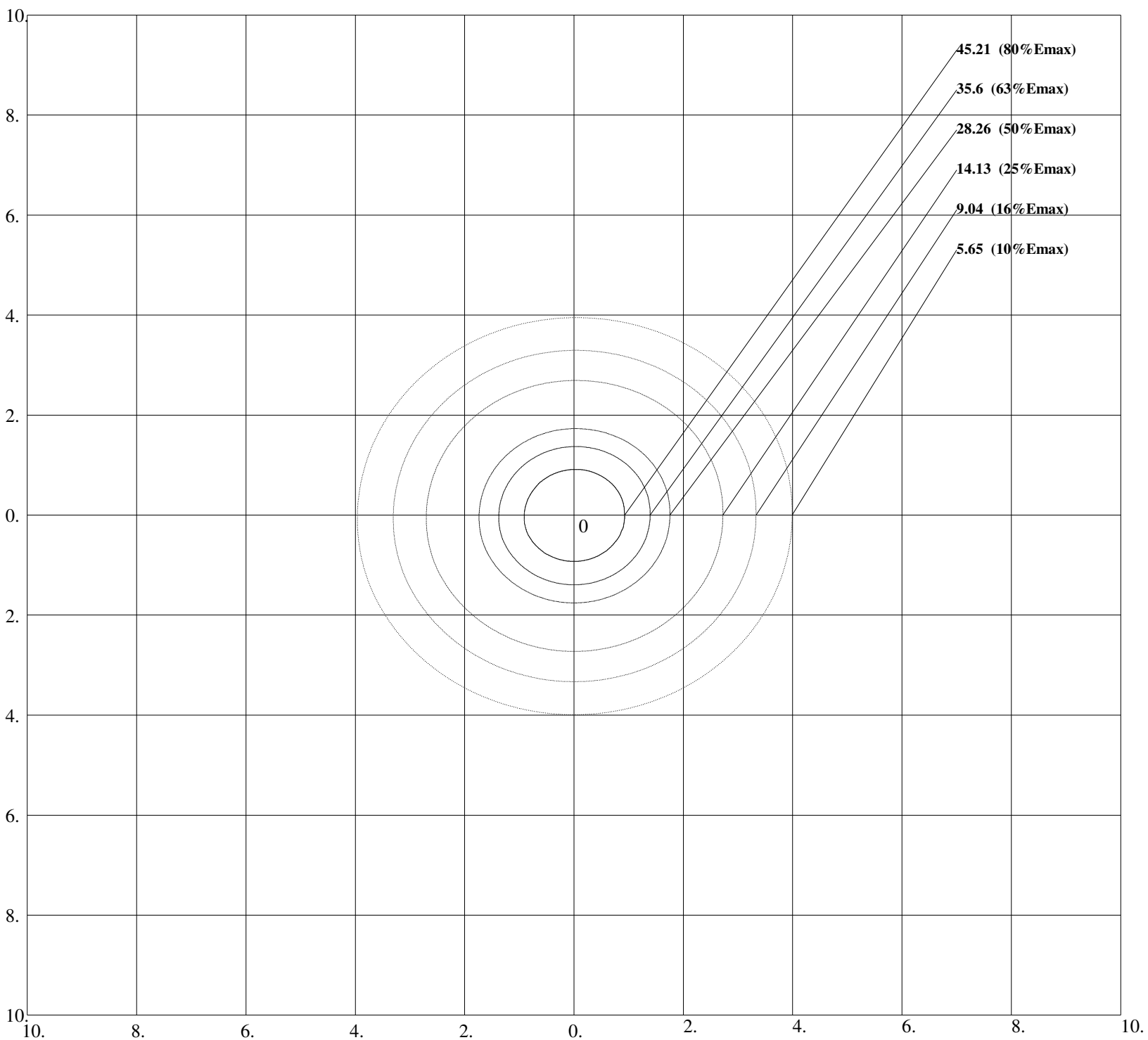


Light Distribution Curve[Unit: cd]





Iso-Lux [Unit :lx] 8538-80



Units: lx
Height: 3 m
Max Illuminance : 56.51lx

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Lux-Distance Curve

