

RP Lighting + Fans

4931 Paseo Del Norte NE, Albuquerque, NM 87113

TEL: 800-937-6925

FAX: 800-207-9509

rplighting@rplighting.com

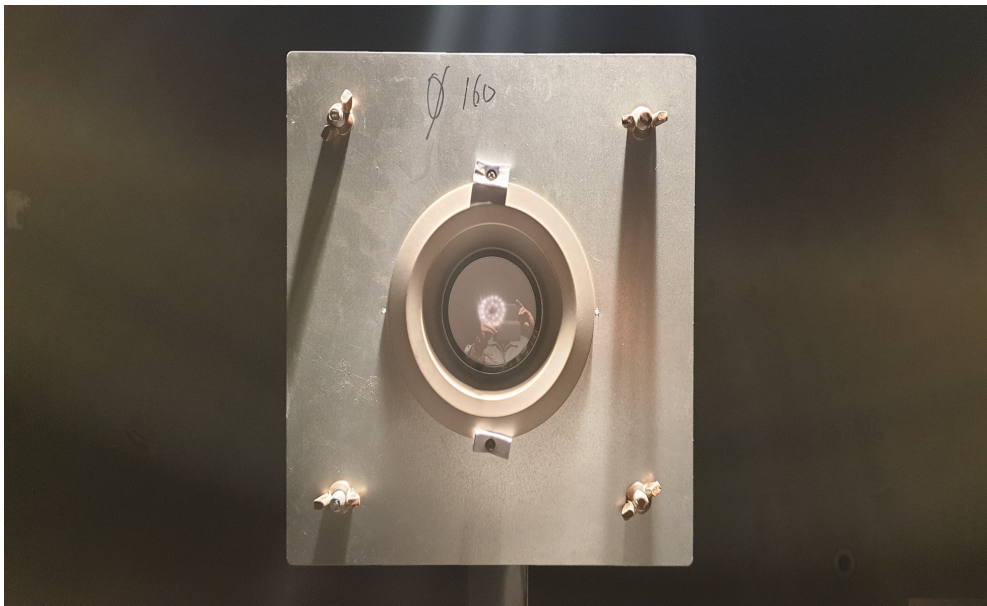
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Test Report of Luminaire

Report No.:

Luminaire Type	8523-90-3K		
Lamp Type	LED		
Client	ROYAL	EUT NO.	CCT: 2999K, CRI: 93.1Ra
Luminaire Parameters:			
Voltage	120.0	Current	0.113
Power:	11.9	Power Factor	0.877
Frequency:	60Hz	Tc	3000K
Photometric Parameters			
Luminaire Flux	728.23 lm	Luminaire Eff.	Data imperfect...!
Max Intensity	411.169cd	Central Intensity	411.169cd
Angle of Max Intensity:	C:0 G:0		
Upward Flux Ratio	0.0%		
Downward Flux Ratio	-72822.5%		
50%Imax Beam Width	C0_180[44.1 , -44.5] C90_270[45.4 , -43.9]		
Remark			

Luminaire Figure



RP Lighting + Fans

Photometric Data Table [Unit:cd] 8523-90-3K

C\G	0	5	10	15	20	25	30	35	40	45
0	411.2	408.7	402.2	393.1	380.5	368.9	356.2	336.5	285.0	187.7
5	411.2	408.7	402.6	393.2	380.6	369.1	355.8	336.2	285.8	189.3
10	411.2	408.6	402.8	393.2	380.8	368.9	355.5	336.0	288.3	192.0
15	411.2	408.6	402.9	393.1	380.9	368.6	355.6	336.0	289.5	194.8
20	411.2	408.6	403.0	392.6	380.9	368.4	355.8	335.9	290.7	197.7
25	411.2	408.6	403.1	392.0	381.1	368.7	355.1	335.9	291.8	199.9
30	411.2	408.6	403.1	392.1	381.6	368.9	354.8	335.8	292.2	202.3
35	411.2	408.6	403.1	392.6	381.7	368.4	355.1	334.9	292.5	203.8
40	411.2	408.7	403.0	393.4	381.3	368.2	354.2	335.2	293.2	205.3
45	411.2	408.7	403.1	393.8	381.0	368.2	353.5	334.5	293.2	206.7
50	411.2	408.8	403.2	393.7	380.8	368.2	353.7	334.4	293.5	208.2
55	411.2	408.9	403.2	393.9	381.1	367.7	353.7	334.2	294.1	209.1
60	411.2	409.0	403.2	393.9	380.7	367.7	353.4	334.9	295.5	210.5
65	411.2	409.1	403.2	393.7	380.0	367.3	353.1	334.8	295.9	211.6
70	411.2	409.2	403.1	393.3	379.9	366.6	352.6	334.7	296.7	212.9
75	411.2	409.3	402.9	393.4	380.2	365.9	351.9	334.8	297.2	213.8
80	411.2	409.5	402.7	393.5	380.0	365.4	352.0	334.6	297.1	214.8
85	411.2	409.5	402.8	393.4	379.4	365.0	351.3	334.1	296.6	214.3
90	411.2	409.5	403.2	393.3	379.0	364.1	349.7	333.8	295.9	214.3
95	411.2	409.5	403.6	393.1	378.9	364.1	350.1	333.6	295.7	213.8
100	411.2	409.5	403.8	393.0	379.1	364.7	351.3	333.4	295.5	213.8
105	411.2	409.5	403.6	393.1	379.0	364.6	351.1	333.6	294.4	214.4
110	411.2	409.5	403.3	393.1	378.4	364.3	350.7	333.6	294.7	214.2
115	411.2	409.5	403.1	392.8	378.1	364.6	350.8	333.5	293.7	213.6
120	411.2	409.6	402.9	392.3	378.4	365.3	351.3	333.5	293.5	213.2
125	411.2	409.7	402.7	391.8	378.9	365.4	351.1	333.8	292.8	212.5
130	411.2	409.8	402.4	391.4	379.0	365.5	351.8	333.0	291.5	211.6
135	411.2	409.8	402.3	391.6	379.2	365.7	352.0	332.9	290.7	210.7
140	411.2	409.9	402.2	392.1	379.5	366.3	350.7	332.1	289.3	209.8
145	411.2	409.8	402.3	392.4	379.5	366.2	349.9	331.4	288.4	208.2
150	411.2	409.8	402.5	393.0	379.8	365.6	349.5	330.7	287.1	207.0
155	411.2	409.8	402.7	393.2	379.9	365.1	349.4	330.4	286.1	205.6
160	411.2	409.8	402.8	392.9	379.8	365.2	349.8	330.0	284.9	204.5
165	411.2	409.6	403.1	392.7	379.4	365.1	349.6	328.8	283.5	203.1
170	411.2	409.3	403.3	392.6	379.0	365.3	348.7	328.1	281.9	201.5
175	411.2	409.0	403.2	392.3	379.0	364.6	348.7	327.4	279.7	199.4
180	411.2	408.7	402.8	391.9	378.6	364.1	347.9	325.6	277.9	197.4
185	411.2	408.4	402.2	391.3	377.6	364.0	346.8	324.7	275.9	195.4
190	411.2	408.1	401.8	390.6	377.1	363.9	346.4	323.1	274.5	193.4
195	411.2	407.9	401.5	390.3	377.3	363.3	345.8	321.6	272.6	191.8
200	411.2	407.7	401.4	390.4	377.6	362.7	344.5	320.6	270.9	190.1
205	411.2	407.6	401.5	390.6	377.6	362.4	344.3	319.3	269.3	188.8
210	411.2	407.5	401.6	390.7	377.1	362.7	343.9	318.8	268.3	187.6
215	411.2	407.4	401.6	390.6	377.1	362.8	343.1	318.7	267.7	186.5
220	411.2	407.3	401.6	390.3	377.1	362.8	343.3	318.5	267.5	185.5
225	411.2	407.4	401.4	389.7	377.5	363.2	344.6	319.6	267.7	184.7
230	411.2	407.5	401.2	389.5	377.7	364.1	346.1	321.2	268.6	184.6
235	411.2	407.5	401.0	389.5	377.6	364.5	347.3	322.6	269.8	185.0

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Photometric Data Table [Unit:cd] 8523-90-3K

240	411.2	406.9	400.9	389.3	377.1	364.3	347.9	324.4	271.6	185.5
245	411.2	407.6	400.7	389.3	376.7	364.3	348.3	325.5	272.8	185.3
250	411.2	407.7	400.5	389.5	376.7	364.5	348.8	325.7	273.8	185.5
255	411.2	407.8	400.7	389.4	376.9	365.1	349.3	327.0	274.4	185.3
260	411.2	407.8	400.8	389.6	377.3	365.0	349.7	327.9	275.0	185.1
265	411.2	407.7	400.8	389.6	377.8	364.6	349.8	328.5	276.0	185.2
270	411.2	407.6	400.7	389.8	377.8	364.6	349.6	329.1	276.4	185.8
275	411.2	407.5	400.6	390.0	377.9	365.1	350.1	329.4	276.7	185.8
280	411.2	407.4	400.7	390.0	378.0	365.6	350.4	329.4	276.9	185.3
285	411.2	407.4	400.8	389.9	377.6	365.9	351.1	329.1	276.1	184.8
290	411.2	407.3	400.9	390.1	377.6	366.5	351.6	328.8	275.9	184.1
295	411.2	407.4	401.0	390.3	378.2	366.8	352.3	329.3	276.1	183.8
300	411.2	407.5	401.3	390.6	378.9	366.8	352.5	329.6	276.3	183.5
305	411.2	407.6	401.7	390.9	379.6	367.0	352.7	330.3	276.6	183.3
310	411.2	407.5	402.0	391.0	379.6	367.3	352.9	331.1	276.5	183.0
315	411.2	407.6	402.1	391.4	379.4	368.0	353.2	331.1	276.6	182.5
320	411.2	407.8	402.1	391.8	379.8	368.2	353.6	330.7	276.0	181.8
325	411.2	407.9	401.9	391.9	380.5	368.3	354.1	331.3	275.8	181.7
330	411.2	408.1	401.7	391.7	380.9	368.0	354.0	332.0	276.5	181.4
335	411.2	408.2	401.5	391.5	380.6	368.4	354.4	332.7	277.4	181.3
340	411.2	408.3	401.4	391.3	380.0	369.4	355.5	333.4	278.2	181.6
345	411.2	408.4	401.3	391.2	379.8	369.6	355.4	334.4	279.9	182.5
350	411.2	408.4	401.3	391.6	380.3	368.8	355.7	334.9	281.7	184.0
355	411.2	408.5	401.7	392.4	380.7	368.6	356.5	335.4	283.1	185.2
360	411.2	408.7	402.2	393.1	380.5	368.9	356.2	336.5	285.0	187.7

C\G	50	55	60	65	70	75	80	85	90
0	93.2	37.8	19.1	10.6	5.5	3.5	2.1	1.0	0.5
5	94.4	38.3	19.3	10.7	5.5	3.5	2.1	1.0	0.5
10	95.7	38.6	19.4	10.8	5.6	3.5	2.1	1.0	0.5
15	97.4	39.0	19.6	10.9	5.6	3.5	2.1	1.0	0.5
20	99.0	39.5	19.8	11.0	5.7	3.5	2.1	1.0	0.5
25	100.9	40.0	20.0	11.0	5.7	3.5	2.1	1.0	0.5
30	102.3	40.6	20.1	11.1	5.7	3.5	2.2	1.0	0.5
35	103.5	41.2	20.3	11.2	5.8	3.5	2.1	1.0	0.5
40	104.7	41.7	20.5	11.2	5.8	3.5	2.2	1.0	0.5
45	105.7	42.1	20.6	11.3	5.8	3.4	2.1	1.0	0.5
50	106.4	42.5	20.7	11.3	5.8	3.4	2.1	1.0	0.5
55	107.1	42.8	20.8	11.3	5.8	3.3	2.1	1.0	0.5
60	107.6	43.0	20.9	11.3	5.8	3.3	2.1	1.0	0.5
65	108.1	43.2	20.9	11.3	5.7	3.3	2.1	1.0	0.5
70	108.5	43.3	20.9	11.3	5.7	3.3	2.1	1.0	0.5
75	109.1	43.3	20.9	11.2	5.7	3.3	2.1	1.0	0.5
80	109.3	43.3	20.9	11.2	5.6	3.2	2.1	1.0	0.5
85	109.8	43.3	20.8	11.1	5.6	3.2	2.1	1.0	0.5
90	110.1	43.2	20.7	11.1	5.6	3.2	2.0	1.0	0.5
95	110.4	43.1	20.6	11.0	5.5	3.2	2.0	1.0	0.5
100	110.7	43.1	20.5	10.9	5.5	3.1	2.0	1.0	0.5

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Photometric Data Table [Unit:cd] 8523-90-3K

105	111.1	42.9	20.3	10.9	5.5	3.1	2.0	1.0	0.5
110	111.2	42.8	20.2	10.8	5.4	3.1	2.0	1.0	0.5
115	111.0	42.6	20.0	10.8	5.4	3.1	2.0	1.0	0.5
120	110.9	42.3	19.9	10.7	5.4	3.2	2.0	0.9	0.5
125	110.5	42.1	19.6	10.6	5.4	3.1	2.0	0.9	0.5
130	110.2	41.8	19.5	10.5	5.3	3.1	2.0	0.9	0.5
135	109.9	41.5	19.3	10.5	5.3	3.1	2.0	0.8	0.5
140	109.7	41.3	19.2	10.4	5.2	3.1	1.9	0.9	0.5
145	109.3	41.0	19.1	10.4	5.2	3.1	1.9	0.9	0.5
150	108.6	40.8	19.0	10.3	5.2	3.1	1.9	0.9	0.5
155	108.1	40.6	18.9	10.2	5.1	3.1	1.9	0.9	0.5
160	107.4	40.5	18.8	10.2	5.1	3.2	1.9	0.9	0.5
165	106.6	40.5	18.7	10.1	5.1	3.1	1.9	0.9	0.5
170	105.6	40.5	18.6	10.0	5.0	3.1	1.9	0.9	0.5
175	104.6	40.5	18.5	10.0	5.0	3.1	1.8	0.9	0.5
180	103.6	40.5	18.4	9.9	5.0	3.1	1.8	0.9	0.5
185	102.6	40.4	18.4	9.9	4.9	3.1	1.8	0.9	0.5
190	101.8	40.3	18.3	9.8	4.9	3.1	1.8	0.8	0.5
195	100.7	40.0	18.3	9.7	4.9	3.1	1.8	0.8	0.5
200	99.7	39.7	18.3	9.7	4.9	3.1	1.8	0.8	0.5
205	98.9	39.3	18.2	9.6	4.9	3.1	1.8	0.8	0.5
210	97.8	38.8	18.1	9.6	4.8	3.1	1.8	0.8	0.5
215	96.9	38.3	18.1	9.5	4.8	3.1	1.8	0.7	0.5
220	95.7	37.8	18.0	9.5	4.8	3.1	1.8	0.7	0.5
225	94.5	37.2	17.9	9.4	4.8	3.1	1.7	0.7	0.5
230	93.4	36.6	17.8	9.4	4.8	3.1	1.7	0.7	0.5
235	92.4	35.9	17.7	9.4	4.7	3.1	1.7	0.7	0.5
240	91.5	35.4	17.6	9.4	4.7	3.0	1.7	0.7	0.5
245	90.1	34.9	17.5	9.3	4.7	3.0	1.7	0.7	0.5
250	89.1	34.4	17.5	9.3	4.7	3.0	1.7	0.7	0.5
255	88.2	34.0	17.4	9.3	4.7	3.1	1.7	0.8	0.5
260	87.4	33.7	17.4	9.3	4.7	3.0	1.7	0.8	0.5
265	86.9	33.4	17.4	9.3	4.7	3.0	1.7	0.8	0.5
270	86.6	33.3	17.4	9.3	4.7	3.0	1.7	0.8	0.5
275	86.3	33.1	17.3	9.3	4.7	3.0	1.8	0.8	0.5
280	86.1	33.0	17.3	9.4	4.8	3.1	1.8	0.8	0.5
285	85.9	33.0	17.3	9.4	4.8	3.1	1.8	0.8	0.5
290	85.9	33.0	17.3	9.4	4.8	3.1	1.8	0.8	0.5
295	85.9	33.1	17.3	9.4	4.8	3.1	1.8	0.8	0.5
300	86.1	33.3	17.4	9.5	4.8	3.1	1.8	0.8	0.5
305	86.4	33.5	17.4	9.5	4.9	3.1	1.8	0.7	0.5
310	86.7	33.8	17.5	9.5	4.9	3.2	1.8	0.7	0.5
315	87.1	34.1	17.6	9.6	4.9	3.2	1.9	0.8	0.5
320	87.5	34.5	17.7	9.7	5.0	3.2	1.9	0.8	0.5
325	88.1	34.9	17.8	9.8	5.0	3.2	1.9	0.8	0.5
330	88.6	35.3	18.0	9.9	5.1	3.3	1.9	0.8	0.5
335	89.2	35.7	18.1	10.0	5.1	3.3	2.0	0.9	0.5
340	90.0	36.1	18.3	10.1	5.2	3.3	2.0	0.9	0.5
345	90.6	36.6	18.5	10.2	5.3	3.4	2.0	0.9	0.5

RP Lighting + Fans

Photometric Data Table [Unit:cd] 8523-90-3K

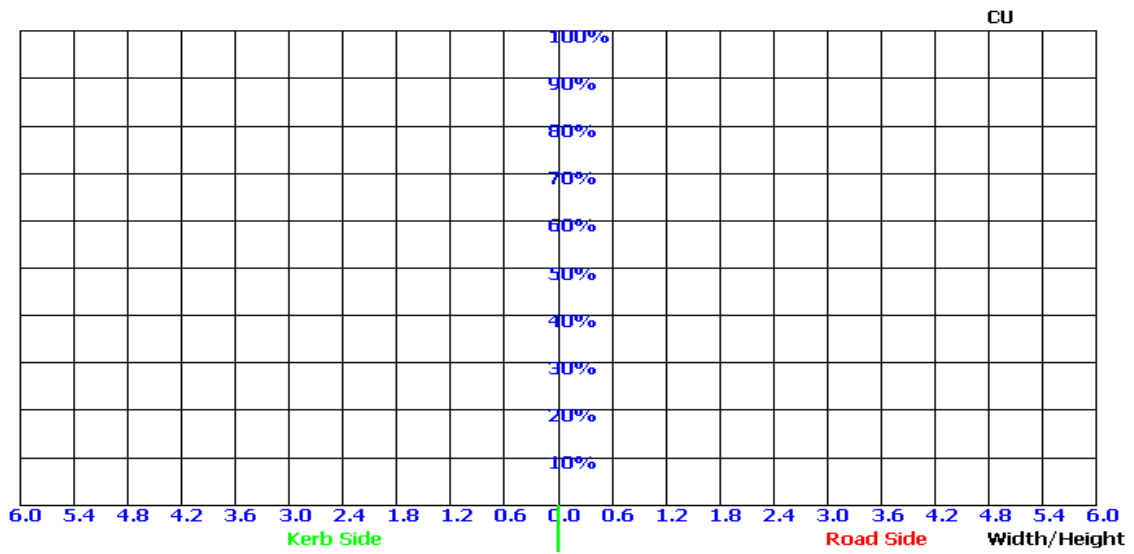
350	91.4	37.0	18.7	10.3	5.3	3.4	2.0	1.0	0.5
355	92.1	37.4	18.9	10.4	5.4	3.4	2.0	0.9	0.5
360	93.2	37.8	19.1	10.6	5.5	3.5	2.1	1.0	0.5

RP Lighting + Fans

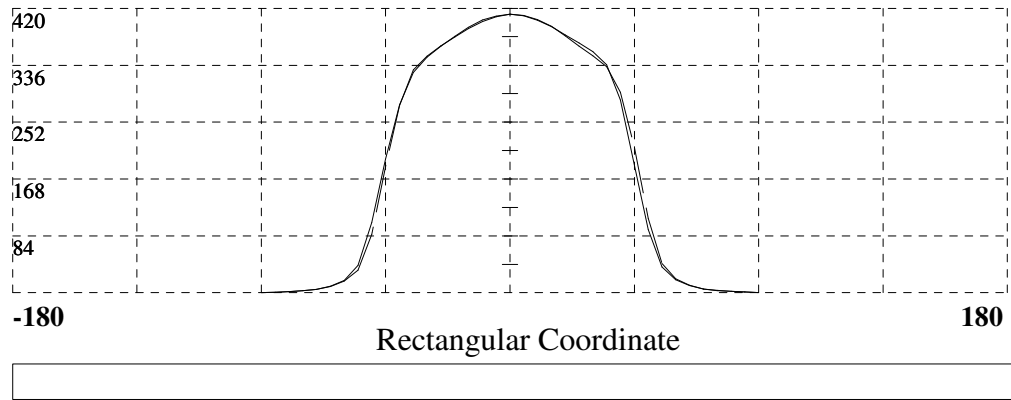
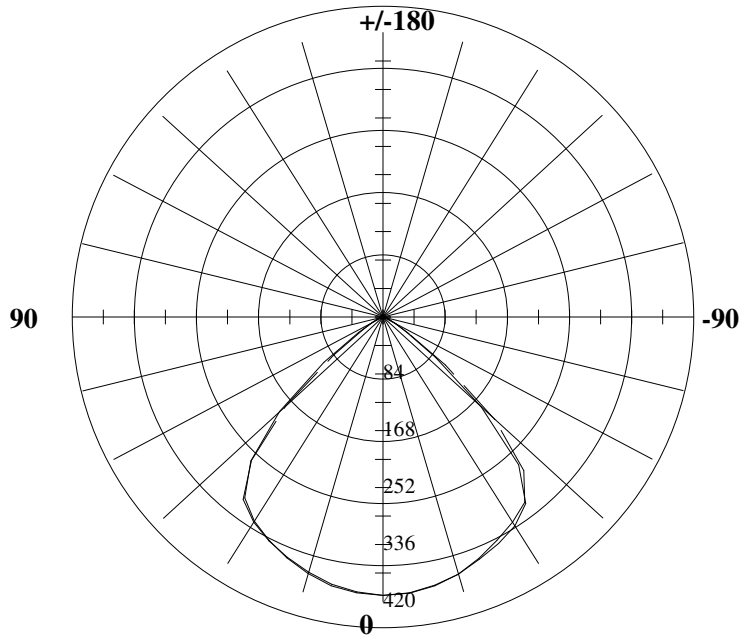
Zonal Flux 8523-90-3K

Gamma [°]	I_{mean} [cd]	Zonal Flux [lm]	Sum.Flux [lm]	Zonal Flux [%]	Sum.Flux [%]
0	411.17	0.00	0.00	0.00	0.00
5	408.49	9.80	9.80	-979.88	-979.88
10	402.14	29.00	38.80	-2899.87	-3879.75
15	391.73	47.09	85.89	-4709.19	-8588.94
20	379.10	63.53	149.42	-6352.73	-14941.66
25	366.02	78.15	227.57	-7814.88	-22756.55
30	351.01	90.74	318.31	-9074.08	-31830.65
35	330.31	100.33	418.64	-10032.98	-41863.62
40	282.98	102.32	520.96	-10232.34	-52095.95
45	196.25	88.73	609.69	-8873.31	-60969.28
50	98.89	59.64	669.33	-5963.70	-66932.98
55	38.69	29.92	699.24	-2991.53	-69924.48
60	18.87	13.30	712.55	-1330.47	-71254.94
65	10.22	7.07	719.62	-707.15	-71962.08
70	5.20	3.90	723.52	-390.36	-72352.47
75	3.21	2.20	725.72	-219.70	-72572.14
80	1.93	1.37	727.10	-137.39	-72709.55
85	0.88	0.76	727.86	-76.14	-72785.70
90	0.47	0.37	728.23	-36.82	-72822.52

RP Lighting + Fans
Coefficient Utilization Curve 8523-90-3K

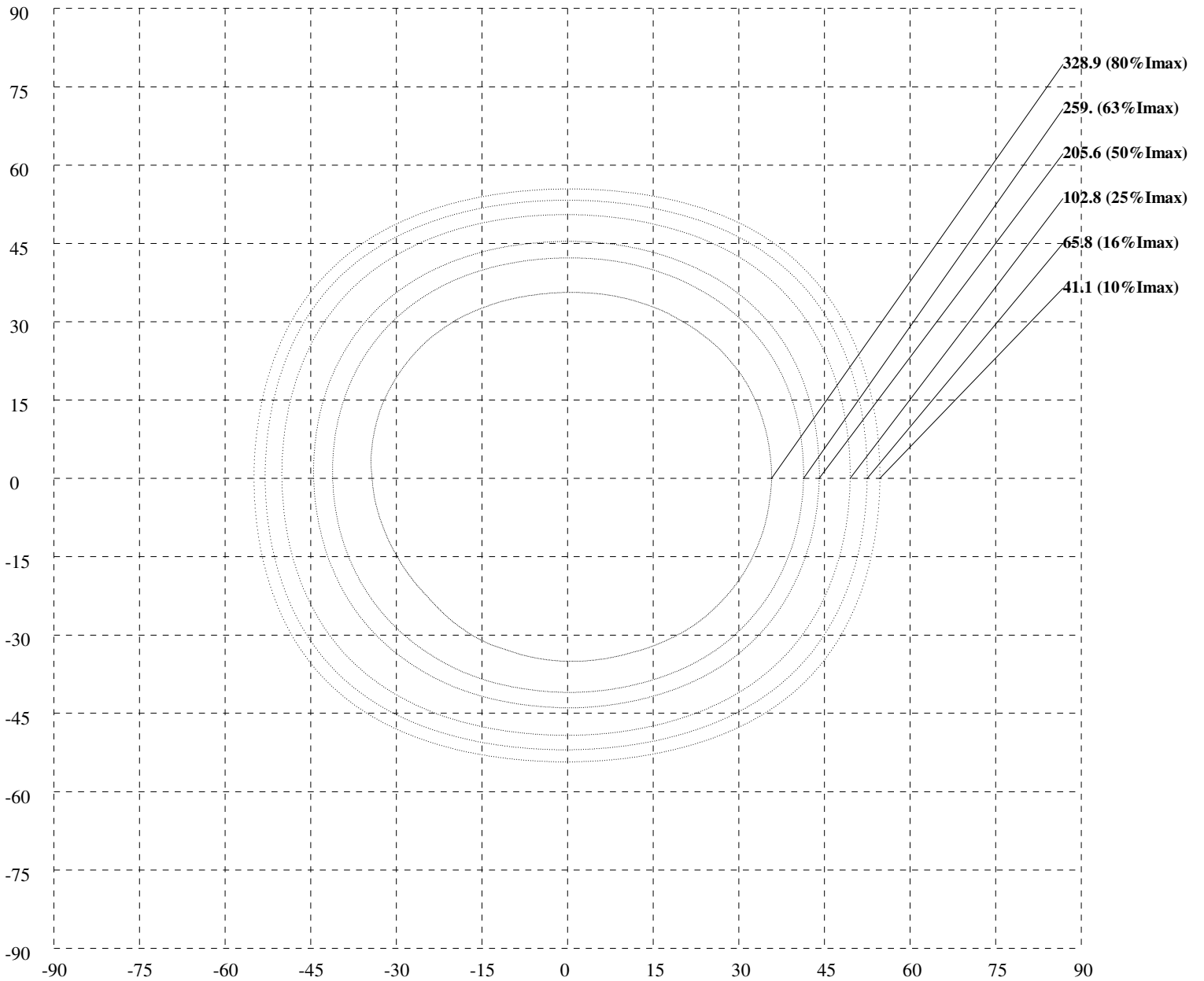


Light Distribution Curve[Unit: cd]



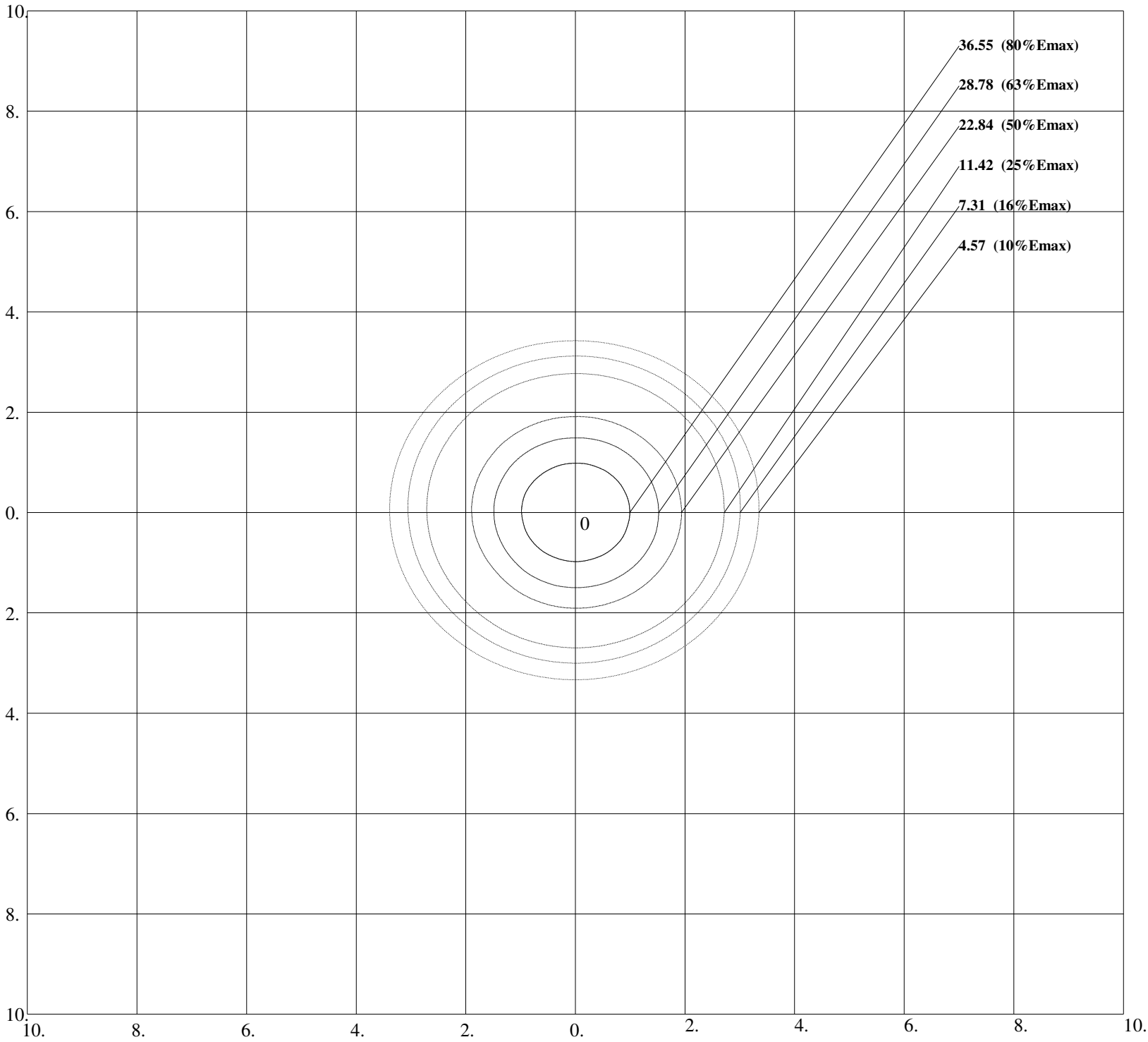
RP Lighting + Fans

ISO-Candela V-H [Unit :cd] 8523-90-3K



RP Lighting + Fans

Iso-Lux [Unit :lx] 8523-90-3K



Units: lx
Height: 3 m
Max Illuminance : 45.69lx

RP Lighting + Fans
Lux-Distance Curve

