

Report No.:

Luminaire Type	4422		
Lamp Type	LED_69R-930-9V		
Client	ROYAL	EUT NO.	CCT: 2983K, CRI: 94.2Ra

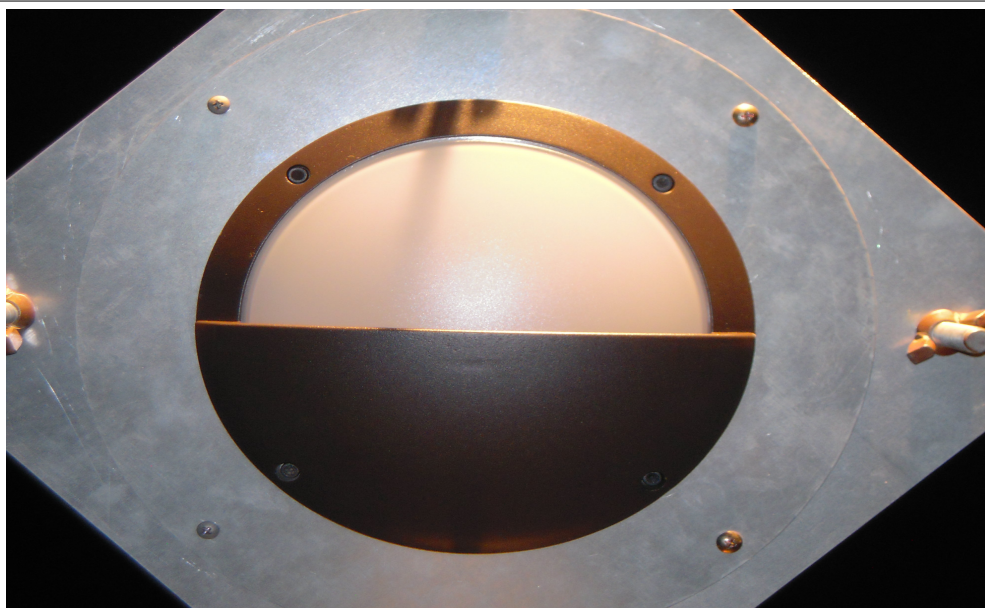
Luminaire Parameters:

Voltage	120.1	Current	0.128
Power:	15.2	Power Factor	0.990
Frequency:	60Hz	Tc	3000K

Photometric Parameters

Luminaire Flux	436.54 lm	Luminaire Eff.	Data imperfect...!
Max Intensity	198.74cd	Central Intensity	163.789cd
Angle of Max Intensity:	C:85 G:20		
Upward Flux Ratio	0.0%		
Downward Flux Ratio	-43653.55%		
50%Imax Beam Width	C0_180[44.7 , -43.7] C90_270[62.2 , -19.7]		
Remark			

Luminaire Figure



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Photometric Data Table [Unit:cd] 4422

C\G	0	5	10	15	20	25	30	35	40	45
0	163.8	162.8	160.3	155.9	149.7	141.9	132.5	122.0	110.6	98.6
5	163.8	163.9	162.4	159.1	153.7	146.4	137.3	127.2	115.9	103.6
10	163.8	165.2	165.1	162.7	158.2	151.6	143.1	133.3	121.9	109.5
15	163.8	166.5	167.6	166.3	162.7	156.7	149.1	139.2	127.8	115.3
20	163.8	167.7	169.9	169.8	167.1	161.8	154.5	144.8	133.5	120.7
25	163.8	168.9	172.2	173.0	171.2	166.6	159.7	150.2	138.8	125.9
30	163.8	170.1	174.5	176.2	175.1	171.1	164.6	155.1	143.7	130.6
35	163.8	171.1	176.5	179.2	178.8	175.3	169.1	159.8	148.4	135.1
40	163.8	172.1	178.5	181.9	182.3	179.2	173.1	164.0	152.4	139.0
45	163.8	173.0	180.2	184.5	185.3	182.8	176.9	167.8	156.2	142.4
50	163.8	173.8	181.8	186.7	188.2	185.9	180.3	171.1	159.5	145.7
55	163.8	174.6	183.3	188.8	190.7	188.8	183.2	174.0	162.3	148.5
60	163.8	175.3	184.6	190.5	192.8	191.2	185.7	176.5	164.8	150.7
65	163.8	175.8	185.7	192.1	194.6	193.2	187.8	178.6	166.7	152.6
70	163.8	176.3	186.6	193.3	196.4	194.8	189.5	180.2	168.5	154.0
75	163.8	176.8	187.6	194.2	197.6	196.4	190.9	181.9	169.6	155.1
80	163.8	177.2	188.1	195.3	198.3	197.1	191.6	182.6	170.5	156.1
85	163.8	177.3	188.4	195.7	198.7	197.6	192.0	183.0	170.8	156.4
90	163.8	177.4	188.4	195.7	198.7	197.5	192.2	183.0	170.8	156.4
95	163.8	177.3	188.2	196.1	198.4	197.1	191.8	182.6	170.4	156.0
100	163.8	177.1	187.8	195.6	197.7	196.3	191.0	181.7	169.6	155.2
105	163.8	176.8	187.2	194.7	196.6	195.1	189.7	180.4	168.5	154.1
110	163.8	176.4	186.4	193.6	195.2	193.6	188.1	178.7	166.8	152.7
115	163.8	175.9	185.3	192.1	193.4	191.6	186.0	176.7	164.8	150.9
120	163.8	175.2	185.1	190.4	191.4	189.4	183.7	174.3	162.5	148.6
125	163.8	174.5	183.7	188.4	188.9	187.6	180.8	171.5	159.8	146.2
130	163.8	173.7	182.1	186.2	187.3	184.8	177.7	169.4	156.7	143.3
135	163.8	173.6	180.3	183.6	184.3	181.3	175.1	165.7	154.2	140.1
140	163.8	172.5	178.2	180.8	180.8	177.4	171.0	161.6	150.1	137.0
145	163.8	171.5	176.2	178.1	177.2	173.5	166.4	157.2	145.8	132.9
150	163.8	170.4	174.0	175.0	173.4	169.1	161.8	152.5	141.2	128.5
155	163.8	169.2	171.7	171.8	169.5	164.6	156.9	147.4	136.3	123.8
160	163.8	168.0	169.4	168.5	165.3	159.8	151.7	142.2	131.0	118.7
165	163.8	166.7	166.9	165.1	161.0	154.8	146.4	136.6	125.4	113.4
170	163.8	165.5	164.4	161.6	156.5	149.8	140.9	130.9	119.7	107.8
175	163.8	164.1	162.0	157.9	152.0	144.6	135.3	125.1	113.8	102.1
180	163.8	162.8	159.4	154.3	147.5	139.4	129.6	119.2	107.9	96.3
185	163.8	161.5	156.8	150.7	143.0	133.9	123.9	113.3	102.0	90.3
190	163.8	160.2	154.4	147.1	138.5	128.8	118.4	107.4	96.2	84.6
195	163.8	158.9	151.9	143.6	134.2	123.7	113.0	101.9	90.6	79.2
200	163.8	157.7	149.5	140.3	130.0	119.0	107.7	96.5	85.2	74.0
205	163.8	156.4	147.2	137.0	125.9	114.3	102.7	91.3	80.1	69.2
210	163.8	155.3	145.0	133.9	122.1	110.0	98.1	86.6	75.4	64.7
215	163.8	154.1	142.9	130.9	118.6	105.9	93.8	82.2	71.0	60.5
220	163.8	153.0	140.9	128.2	115.2	102.2	89.8	78.1	67.1	56.7
225	163.8	152.1	139.1	125.7	112.1	98.7	86.2	74.4	63.5	53.3
230	163.8	151.2	137.4	123.4	109.3	95.6	82.8	71.1	60.2	50.3
235	163.8	150.4	136.0	121.2	106.6	92.8	79.9	68.0	57.2	47.6

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240	163.8	149.7	134.7	119.4	104.4	90.4	77.4	65.5	54.8	45.3
245	163.8	149.1	133.6	117.9	102.6	88.4	75.3	63.4	52.8	43.4
250	163.8	148.7	132.6	116.6	101.1	86.7	73.5	61.7	51.1	41.8
255	163.8	148.3	131.9	115.6	99.9	85.4	72.1	60.3	49.8	40.6
260	163.8	148.0	131.4	114.9	99.0	84.4	71.1	59.3	48.9	39.7
265	163.8	147.8	131.1	114.5	98.5	83.8	70.5	58.7	48.3	39.2
270	163.8	147.8	131.0	114.4	98.4	83.6	70.3	58.5	48.1	38.9
275	163.8	147.9	131.2	114.5	98.6	83.8	70.5	58.7	48.3	39.1
280	163.8	148.0	131.6	115.0	99.1	84.4	71.1	59.2	48.7	39.5
285	163.8	148.3	132.1	115.8	100.0	85.4	72.0	60.1	49.6	40.2
290	163.8	148.7	132.9	116.8	101.3	86.7	73.4	61.5	50.8	41.4
295	163.8	149.3	133.9	118.1	102.8	88.4	75.2	63.2	52.4	42.8
300	163.8	149.9	135.0	119.7	104.7	90.4	77.3	65.3	54.4	44.7
305	163.8	150.5	136.4	121.6	107.0	92.9	79.9	67.8	56.9	46.9
310	163.8	151.2	137.8	123.7	109.7	95.8	83.0	70.9	59.9	49.8
315	163.8	151.9	139.4	126.1	112.6	99.4	86.6	74.4	63.4	53.3
320	163.8	152.9	141.3	128.7	115.8	102.9	90.3	78.3	67.2	56.9
325	163.8	153.9	143.2	131.5	119.2	106.9	94.5	82.5	71.2	60.7
330	163.8	155.0	145.4	134.6	122.9	111.1	99.0	87.1	75.7	65.1
335	163.8	156.2	147.6	137.7	126.9	115.6	103.8	92.1	80.6	69.8
340	163.8	157.4	149.9	141.1	131.0	120.4	109.0	97.4	85.9	74.9
345	163.8	158.7	152.4	144.5	135.4	125.4	114.4	102.9	91.5	80.3
350	163.8	160.0	154.8	148.0	139.8	130.5	120.0	108.7	97.3	86.0
355	163.8	161.3	157.4	151.6	144.3	135.8	125.7	114.8	103.3	91.8
360	163.8	162.8	160.3	155.9	149.7	141.9	132.5	122.0	110.6	98.6

C\G	50	55	60	65	70	75	80	85	90
0	86.5	74.3	62.5	51.0	40.1	29.6	19.9	11.9	6.8
5	91.1	78.8	66.4	54.4	43.3	32.7	23.2	15.2	8.8
10	96.9	83.9	71.0	58.4	46.8	35.6	25.6	16.9	9.9
15	102.3	88.9	75.4	62.4	50.1	38.4	27.7	18.4	10.9
20	107.5	93.6	79.7	66.4	53.3	41.1	29.9	19.9	11.8
25	112.3	98.0	83.6	69.8	56.3	43.5	31.8	21.3	12.7
30	116.8	102.0	87.3	73.0	59.0	45.8	33.5	22.5	13.5
35	120.8	105.8	90.7	76.0	61.6	47.9	35.1	23.6	14.1
40	124.6	109.1	93.6	78.6	63.9	49.8	36.5	24.6	14.6
45	127.8	112.1	96.4	80.9	65.8	51.4	37.8	25.4	15.1
50	130.7	114.8	98.7	83.0	67.7	53.0	39.0	26.2	15.5
55	133.2	117.0	100.7	84.9	69.2	54.3	40.0	26.8	15.7
60	135.3	119.0	102.5	86.4	70.5	55.4	40.7	27.2	15.9
65	137.0	120.5	103.9	87.6	71.6	56.1	40.9	27.2	15.8
70	138.3	121.7	104.9	88.6	72.4	56.6	41.0	26.9	15.6
75	139.3	122.6	105.8	89.3	73.1	56.9	40.9	26.4	15.3
80	139.9	123.2	106.3	89.8	73.4	57.0	40.7	25.7	15.0
85	140.2	123.7	106.8	90.0	73.6	56.9	40.6	25.1	14.7
90	140.3	123.7	106.8	90.1	73.6	56.9	40.5	24.9	14.5
95	139.9	123.5	106.6	89.9	73.5	56.8	40.4	25.0	14.7
100	139.9	122.9	106.1	89.5	73.2	56.8	40.6	25.6	15.0

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105	139.3	122.0	105.3	88.9	72.7	56.6	41.2	26.3	15.5
110	138.1	120.8	104.3	88.0	72.0	56.8	41.3	26.9	15.8
115	136.4	119.4	103.0	86.9	71.1	56.4	41.2	27.5	16.1
120	134.4	117.6	101.5	85.5	70.5	55.5	40.9	27.4	16.1
125	132.1	115.5	99.7	83.9	69.1	54.4	40.1	27.0	15.9
130	129.4	113.1	97.6	82.5	67.5	53.0	39.1	26.4	15.7
135	126.3	110.9	95.3	80.4	65.6	51.5	38.0	25.7	15.4
140	122.9	107.7	92.5	77.9	63.5	49.4	36.4	24.5	14.8
145	118.8	104.3	89.8	75.1	61.1	47.6	34.8	23.5	14.3
150	114.6	100.6	86.4	72.1	58.5	45.5	33.3	22.6	13.8
155	110.1	96.5	82.7	68.8	55.8	43.3	31.6	21.3	13.0
160	105.4	92.1	78.7	65.4	52.7	40.8	29.7	20.0	12.2
165	100.4	87.4	74.5	61.7	49.6	38.2	27.6	18.5	11.2
170	95.1	82.6	70.2	57.8	46.2	35.4	25.5	16.9	10.1
175	89.7	77.6	65.7	53.8	42.8	32.6	23.2	15.3	9.0
180	84.3	72.6	61.2	49.9	39.3	29.2	19.8	12.3	7.1
185	78.8	67.6	56.6	45.8	35.8	25.8	16.5	9.2	5.2
190	73.6	62.7	51.9	41.9	32.6	23.0	14.6	8.2	4.5
195	68.5	58.0	47.7	38.2	29.3	20.6	12.9	7.3	3.9
200	63.6	53.5	43.6	34.5	26.2	18.2	11.3	6.5	3.4
205	58.9	49.2	39.8	31.2	23.3	16.0	9.8	5.6	2.8
210	54.7	45.3	36.2	28.0	20.6	13.9	8.5	4.7	2.2
215	50.9	41.8	33.2	25.3	18.3	11.9	7.1	3.7	1.6
220	47.3	38.6	30.3	22.7	16.0	10.1	5.8	2.8	1.2
225	44.1	35.6	27.6	20.4	14.0	8.5	4.5	2.0	0.8
230	41.3	32.9	25.3	18.4	12.2	7.0	3.5	1.4	0.6
235	38.8	30.6	23.3	16.6	10.5	5.8	2.6	1.0	0.5
240	36.7	28.7	21.5	15.0	9.2	4.7	1.9	0.7	0.5
245	34.9	27.1	20.1	13.7	8.1	3.8	1.4	0.5	0.5
250	33.5	25.8	18.9	12.7	7.3	3.1	0.9	0.5	0.5
255	32.3	24.8	18.0	11.9	6.6	2.5	0.7	0.5	0.5
260	31.5	24.0	17.3	11.3	6.1	2.1	0.5	0.5	0.5
265	31.0	23.5	16.9	10.9	5.8	1.9	0.5	0.5	0.5
270	30.7	23.4	16.7	10.7	5.6	1.8	0.5	0.5	0.5
275	30.8	23.4	16.8	10.8	5.6	1.8	0.5	0.5	0.5
280	31.2	23.8	17.1	11.1	5.9	2.0	0.5	0.5	0.5
285	31.9	24.4	17.7	11.5	6.3	2.4	0.6	0.5	0.5
290	33.0	25.3	18.5	12.3	6.9	2.8	0.9	0.5	0.5
295	34.3	26.5	19.5	13.2	7.7	3.5	1.2	0.5	0.5
300	36.0	28.0	20.9	14.4	8.7	4.3	1.7	0.6	0.5
305	38.1	29.9	22.5	15.8	9.9	5.3	2.3	0.9	0.5
310	40.8	32.1	24.4	17.5	11.4	6.4	3.1	1.3	0.6
315	43.9	35.1	27.2	20.2	13.6	8.3	4.4	1.9	0.8
320	47.1	38.2	30.1	22.5	15.7	10.0	5.6	2.7	1.2
325	50.8	41.5	33.0	25.1	17.9	11.8	7.0	3.5	1.6
330	54.8	45.1	36.3	28.0	20.4	13.9	8.5	4.6	2.2
335	59.2	49.2	40.0	31.2	23.1	16.1	9.8	5.5	2.8
340	64.0	53.5	43.9	34.6	26.1	18.3	11.3	6.4	3.3
345	69.0	58.2	48.1	38.3	29.3	20.7	12.9	7.3	3.9

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Photometric Data Table [Unit:cd] 4422

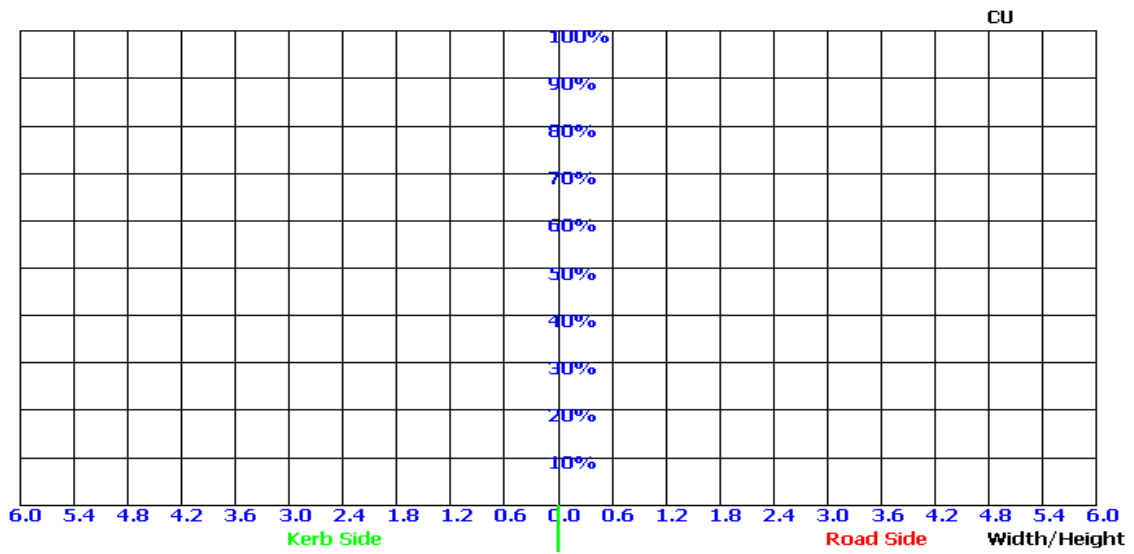
350	74.4	63.1	52.5	42.2	32.6	23.2	14.6	8.2	4.5
355	79.9	68.2	57.1	46.3	35.9	25.8	16.4	9.1	5.1
360	86.5	74.3	62.5	51.0	40.1	29.6	19.9	11.9	6.8

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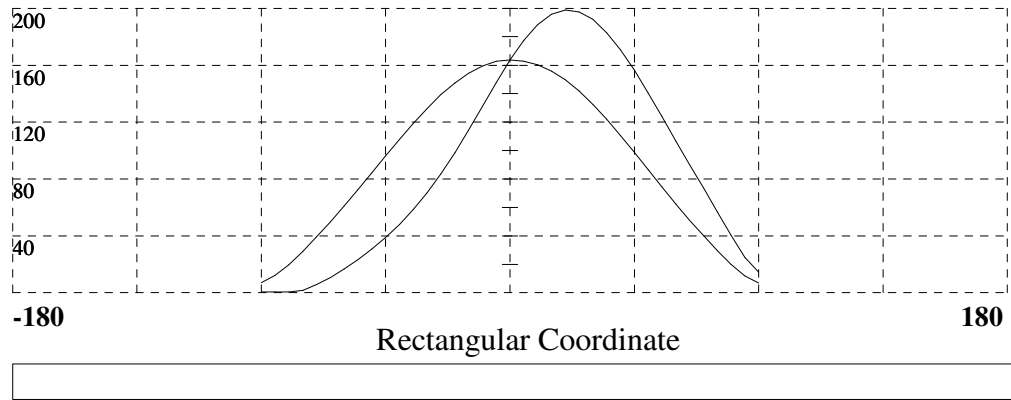
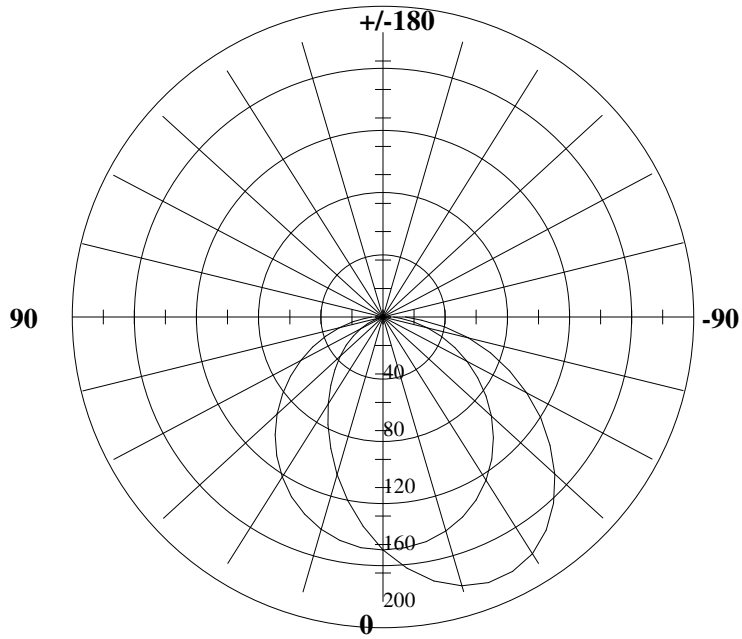
Zonal Flux 4422

Gamma [°]	I_{mean} [cd]	Zonal Flux [lm]	Sum.Flux [lm]	Zonal Flux [%]	Sum.Flux [%]
0	163.79	0.00	0.00	0.00	0.00
5	162.62	3.90	3.90	-390.21	-390.21
10	159.72	11.53	15.43	-1153.10	-1543.31
15	154.99	18.67	34.10	-1866.80	-3410.11
20	148.43	25.01	59.11	-2500.55	-5910.66
25	140.40	30.29	89.40	-3029.32	-8939.98
30	130.96	34.34	123.74	-3434.14	-12374.12
35	120.43	37.02	160.76	-3701.94	-16076.06
40	109.13	38.30	199.06	-3830.04	-19906.10
45	97.31	38.22	237.29	-3822.40	-23728.51
50	85.39	36.92	274.20	-3691.79	-27420.31
55	73.31	34.51	308.71	-3450.78	-30871.08
60	61.59	31.18	339.89	-3118.36	-33989.45
65	50.32	27.21	367.10	-2720.58	-36710.02
70	39.65	22.78	389.88	-2277.95	-38987.97
75	29.67	18.12	408.00	-1811.86	-40799.84
80	20.76	13.49	421.49	-1349.37	-42149.21
85	13.33	9.26	430.75	-926.16	-43075.38
90	7.79	5.78	436.54	-578.19	-43653.56

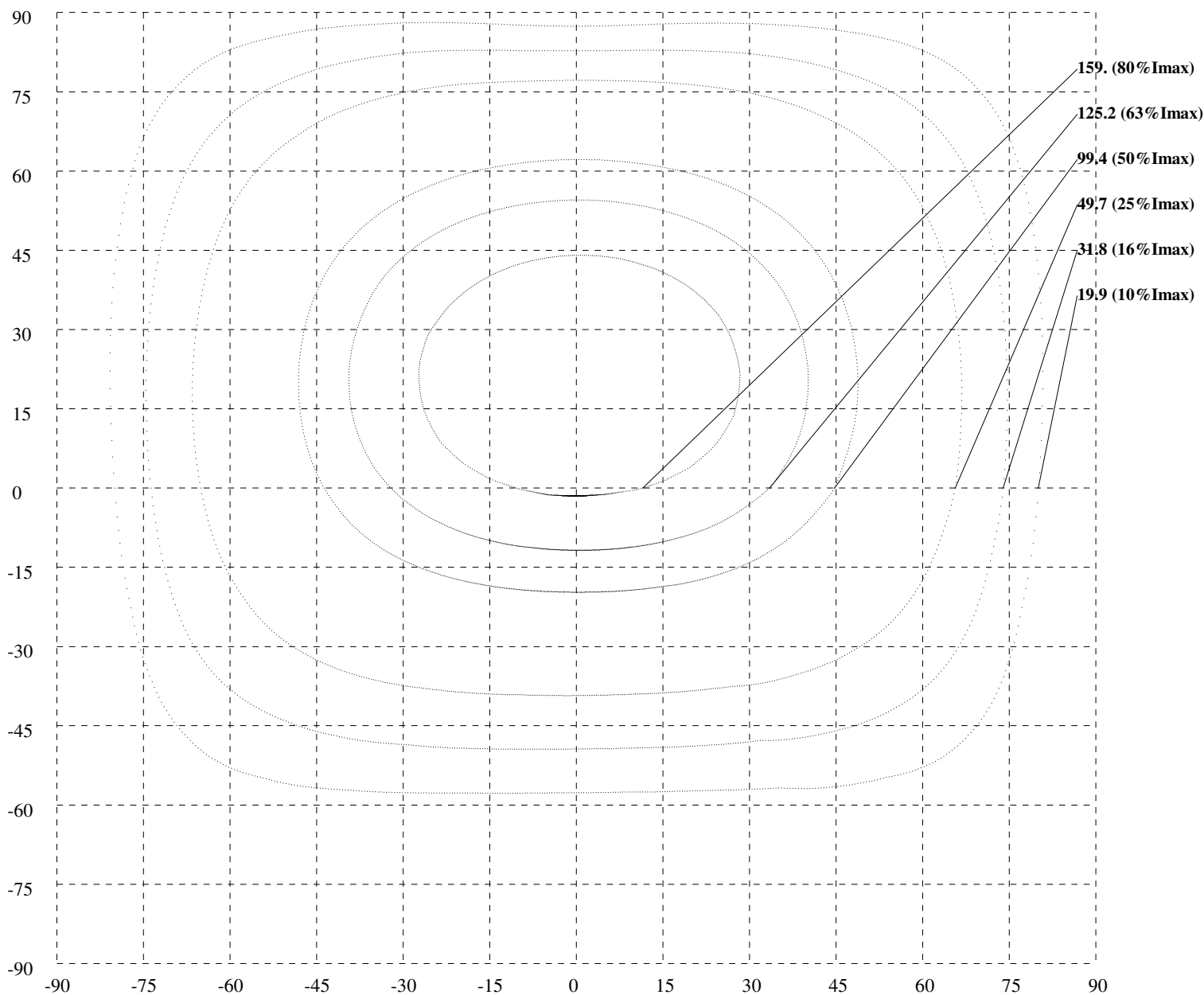
RP Lighting • Fans
Coefficient Utilization Curve 4422



Light Distribution Curve[Unit: cd]

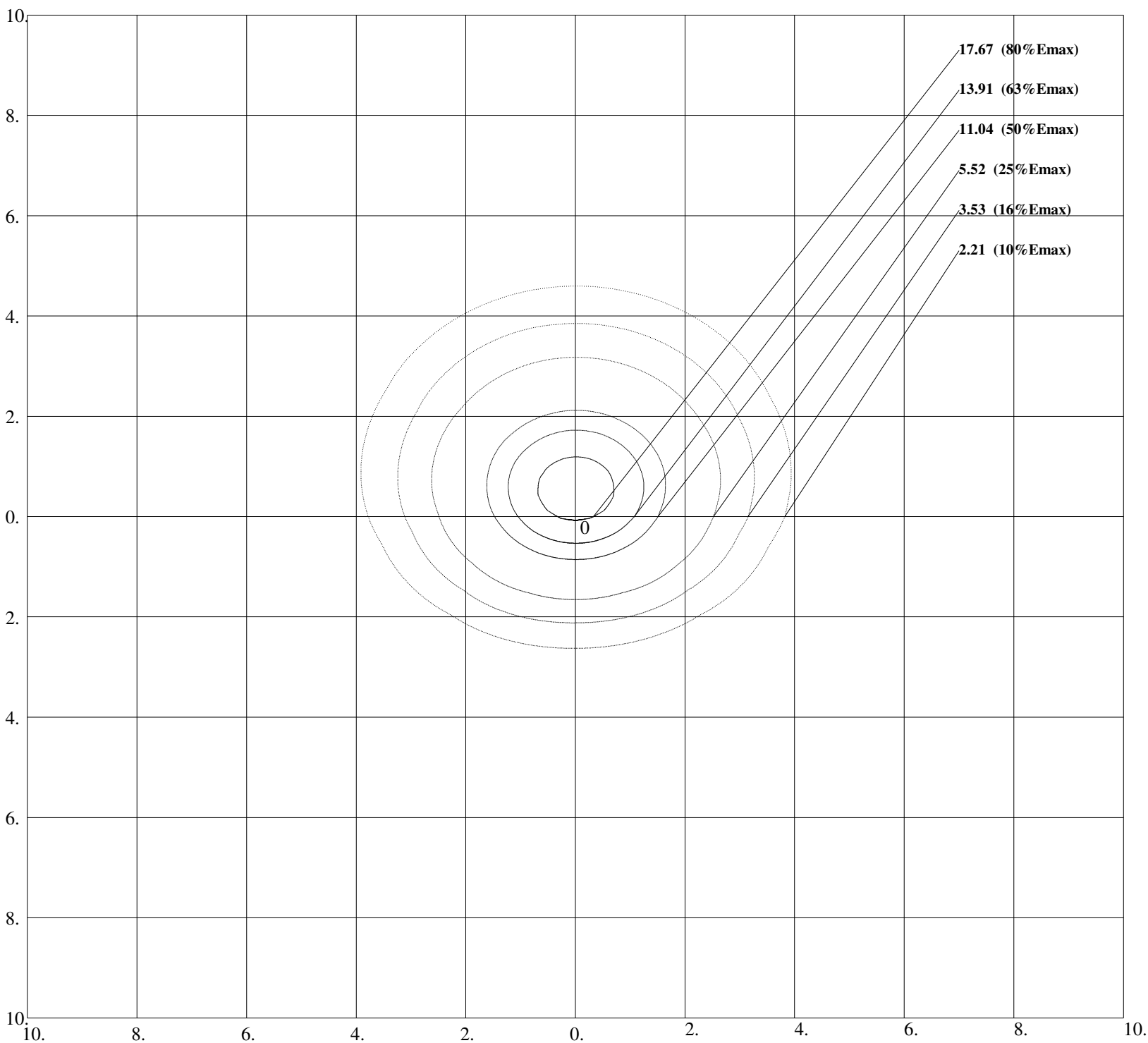


ISO-Candela V-H [Unit :cd] 4422



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Iso-Lux [Unit :lx] 4422



Units: lx
Height: 3 m
Max Illuminance : 22.08lx

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Lux-Distance Curve

