

Test Report of Luminaire

Report No.:

Luminaire Type	RLH-4003-UDM-1648-40		
Lamp Type	LIMILEDS 15W		
Client		EUT NO.	

Luminaire Parameters:

Voltage	120.4	Current	0.144
Power:	17.2	Power Factor	0.989
Frequency:	60Hz	Tc	4000K

Photometric Parameters

Luminaire Flux	776.74 lm	Luminaire Eff.	64.73%
Max Intensity	1454.368cd	Central Intensity	1454.369cd
Angle of Max Intensity:	C:0 G:0		
Upward Flux Ratio	0.0%		
Downward Flux Ratio	64.73%		
50%Imax Beam Width	C0_180[20.3 , -21.3] C90_270[21.9 , -19.0]		
Remark			

Luminaire Figure



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Photometric Data Table [Unit:cd] RLH-4003-UDM-1648-40

C\G	0	5	10	15	20	25	30	35	40	45
0	1454.4	1283.8	1261.1	948.6	739.7	502.4	290.7	144.9	53.1	23.3
5	1454.4	1287.1	1267.1	956.7	746.4	506.0	293.4	145.4	54.6	23.9
10	1454.4	1290.8	1274.1	965.3	753.0	510.7	295.4	147.1	56.0	24.4
15	1454.4	1294.4	1275.4	973.0	762.0	515.0	299.7	150.0	57.2	25.1
20	1454.4	1296.8	1277.4	978.3	769.7	517.7	303.8	154.5	58.0	25.7
25	1454.4	1300.1	1278.1	983.7	777.4	519.0	310.4	159.8	58.6	26.2
30	1454.4	1301.8	1279.1	987.0	784.4	520.7	314.1	167.3	59.4	26.8
35	1454.4	1305.8	1279.8	991.7	787.4	523.4	313.8	171.9	60.6	27.3
40	1454.4	1310.1	1281.4	998.4	793.8	528.1	316.8	173.9	62.1	28.0
45	1454.4	1316.1	1276.8	1006.1	798.1	533.7	326.8	177.0	63.7	28.9
50	1454.4	1318.1	1278.4	1012.4	804.8	544.4	330.5	176.7	65.4	29.9
55	1454.4	1321.2	1278.8	1020.1	810.1	560.4	335.5	174.8	66.9	30.8
60	1454.4	1323.5	1278.8	1027.1	814.5	577.5	337.5	175.4	68.5	31.5
65	1454.4	1325.8	1278.1	1034.8	817.8	583.5	341.1	178.4	69.9	32.2
70	1454.4	1330.2	1277.8	1043.8	820.5	581.8	346.8	183.9	71.4	32.8
75	1454.4	1334.5	1277.4	1047.8	822.5	573.8	353.5	189.6	72.9	33.2
80	1454.4	1338.5	1274.4	1050.1	823.1	566.8	360.8	187.7	74.4	33.6
85	1454.4	1337.8	1271.8	1054.5	824.5	565.1	377.5	186.7	76.0	34.0
90	1454.4	1341.5	1272.1	1059.5	825.5	566.4	381.5	187.7	77.5	34.5
95	1454.4	1341.2	1269.4	1061.5	828.1	574.1	371.8	189.4	78.8	35.3
100	1454.4	1342.5	1266.4	1066.5	831.8	587.8	367.5	193.3	79.9	35.9
105	1454.4	1338.8	1262.7	1064.5	835.1	601.8	367.2	197.5	80.3	36.6
110	1454.4	1338.8	1258.4	1066.1	836.8	607.2	366.8	196.5	80.6	37.0
115	1454.4	1334.5	1254.7	1063.1	836.2	606.2	365.8	199.2	80.9	37.4
120	1454.4	1330.5	1250.7	1061.8	835.5	598.5	364.2	203.1	81.6	37.4
125	1454.4	1326.5	1247.1	1058.1	831.8	588.8	364.5	198.7	82.2	37.2
130	1454.4	1322.2	1243.7	1054.1	828.8	578.5	369.2	193.8	82.6	37.0
135	1454.4	1318.1	1241.7	1048.4	827.1	571.5	379.9	189.7	82.5	36.8
140	1454.4	1312.5	1239.0	1045.1	826.8	567.8	374.8	189.6	82.2	36.5
145	1454.4	1306.5	1238.4	1039.8	825.8	568.8	361.5	191.4	81.5	36.4
150	1454.4	1301.5	1236.7	1034.4	825.1	576.8	354.8	193.3	80.4	36.2
155	1454.4	1293.8	1233.4	1030.1	822.5	585.5	348.8	192.3	79.2	35.9
160	1454.4	1288.1	1234.0	1024.1	818.8	587.8	344.1	187.9	77.5	35.5
165	1454.4	1283.8	1230.4	1015.7	814.1	579.5	338.5	184.8	76.2	34.7
170	1454.4	1277.8	1231.0	1006.7	807.1	561.4	334.8	183.7	74.7	33.7
175	1454.4	1272.4	1228.4	997.7	799.1	548.4	333.5	182.9	73.0	32.7
180	1454.4	1265.7	1229.7	989.7	790.4	539.4	333.1	176.6	71.2	31.4
185	1454.4	1264.1	1228.4	981.0	784.1	532.7	323.4	172.0	69.0	30.2
190	1454.4	1259.4	1229.4	972.3	779.1	528.1	318.4	169.4	66.8	29.2
195	1454.4	1256.1	1231.4	965.7	774.1	525.1	317.4	167.1	64.9	28.2
200	1454.4	1255.4	1234.4	959.0	766.1	525.7	311.4	161.3	63.1	27.5
205	1454.4	1253.4	1238.0	952.6	759.4	528.7	306.4	156.0	61.7	26.6
210	1454.4	1251.1	1238.0	944.3	752.0	522.1	300.7	152.2	60.3	25.8
215	1454.4	1249.4	1238.7	938.3	743.0	514.7	297.4	149.2	58.6	24.9
220	1454.4	1249.4	1237.0	931.6	738.7	510.0	293.7	146.9	56.7	24.0
225	1454.4	1247.1	1233.7	925.9	735.0	503.7	291.1	144.7	54.5	23.2
230	1454.4	1248.4	1233.0	923.3	733.0	498.7	276.7	143.4	52.3	22.3
235	1454.4	1246.7	1227.7	919.9	731.7	494.3	269.4	142.4	50.6	21.6

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Photometric Data Table [Unit:cd] RLH-4003-UDM-1648-40

240	1454.4	1246.0	1224.7	916.6	725.7	491.7	265.4	138.2	49.3	21.0
245	1454.4	1243.7	1219.7	913.6	714.3	490.7	263.4	133.8	48.6	20.4
250	1454.4	1241.7	1217.7	908.9	700.0	488.3	266.0	130.4	48.1	19.9
255	1454.4	1241.4	1214.0	905.9	692.0	477.3	272.0	127.7	47.7	19.5
260	1454.4	1241.0	1207.0	905.2	687.6	464.3	274.0	125.4	47.3	19.2
265	1454.4	1240.0	1205.0	903.2	685.3	462.0	272.7	123.5	46.8	19.0
270	1454.4	1238.4	1201.7	901.6	685.3	462.6	272.0	121.7	46.2	18.7
275	1454.4	1240.0	1201.0	899.9	684.9	471.3	259.0	120.3	45.4	18.5
280	1454.4	1239.7	1195.3	899.2	687.9	478.0	251.0	119.6	44.8	18.3
285	1454.4	1241.4	1194.0	898.9	692.0	479.7	246.7	119.4	44.3	18.3
290	1454.4	1242.4	1194.6	899.2	694.6	479.7	245.7	119.6	44.1	18.3
295	1454.4	1243.7	1196.6	899.6	694.0	479.7	247.0	119.4	44.2	18.4
300	1454.4	1246.0	1197.0	900.9	690.3	480.7	249.7	119.3	44.5	18.6
305	1454.4	1247.7	1198.3	903.6	688.9	478.3	253.3	119.9	45.1	18.9
310	1454.4	1250.1	1204.0	905.6	686.6	470.0	262.7	120.8	45.7	19.1
315	1454.4	1251.7	1209.3	908.6	687.6	462.6	272.4	122.7	46.4	19.4
320	1454.4	1256.1	1213.3	910.3	688.9	461.6	273.0	124.9	46.9	19.7
325	1454.4	1258.7	1220.7	912.3	693.3	466.3	274.4	126.4	47.3	20.0
330	1454.4	1263.4	1229.4	915.3	699.6	477.3	271.0	128.7	47.5	20.3
335	1454.4	1267.7	1233.4	917.9	709.3	483.3	265.4	131.6	47.7	20.7
340	1454.4	1270.7	1234.7	921.9	719.7	483.3	263.0	134.5	48.2	21.1
345	1454.4	1274.4	1239.7	927.3	727.3	484.7	262.7	138.3	48.7	21.6
350	1454.4	1276.8	1243.0	933.3	732.3	488.0	267.4	142.3	49.8	22.0
355	1454.4	1279.8	1248.7	940.3	736.3	494.0	277.4	145.0	51.4	22.7
360	1454.4	1283.8	1261.1	948.6	739.7	502.4	290.7	144.9	53.1	23.3

C\G	50	55	60	65	70	75	80	85	90
0	9.3	4.8	2.8	1.7	0.9	0.6	0.3	0.1	0.0
5	9.5	4.9	2.8	1.7	1.0	0.6	0.3	0.1	0.1
10	9.6	4.9	2.8	1.7	1.0	0.6	0.3	0.2	0.0
15	9.7	5.0	2.9	1.8	0.9	0.6	0.4	0.1	0.1
20	9.9	5.1	2.9	1.7	1.0	0.5	0.2	0.2	0.1
25	10.1	5.0	2.9	1.7	0.9	0.5	0.3	0.1	0.1
30	10.3	5.2	3.0	1.6	1.1	0.5	0.3	0.1	0.1
35	10.5	5.3	3.0	1.8	1.0	0.5	0.3	0.2	0.0
40	10.9	5.3	3.0	1.8	1.1	0.6	0.4	0.1	0.1
45	11.1	5.5	3.1	1.8	1.1	0.6	0.3	0.2	0.1
50	11.4	5.6	3.2	1.8	1.0	0.6	0.3	0.1	0.1
55	11.7	5.7	3.2	1.8	1.1	0.6	0.3	0.2	0.1
60	12.0	5.7	3.2	1.9	1.1	0.6	0.3	0.2	0.1
65	12.3	5.8	3.3	2.0	1.2	0.6	0.4	0.2	0.0
70	12.6	6.0	3.4	2.0	1.1	0.6	0.4	0.2	0.1
75	12.9	6.1	3.4	2.0	1.2	0.6	0.3	0.1	0.0
80	13.1	6.3	3.4	2.0	1.2	0.6	0.3	0.1	0.0
85	13.4	6.3	3.5	2.0	1.2	0.7	0.3	0.2	0.1
90	13.8	6.4	3.6	2.1	1.3	0.7	0.3	0.3	0.0
95	14.1	6.5	3.5	2.2	1.2	0.7	0.4	0.2	0.1
100	14.3	6.6	3.6	2.1	1.2	0.6	0.4	0.2	0.1

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Photometric Data Table [Unit:cd] RLH-4003-UDM-1648-40

105	14.5	6.7	3.7	2.2	1.3	0.7	0.4	0.3	0.0
110	14.6	6.7	3.7	2.2	1.3	0.6	0.4	0.2	0.1
115	14.7	6.9	3.8	2.2	1.3	0.7	0.4	0.2	0.0
120	14.8	6.9	3.9	2.2	1.3	0.7	0.4	0.3	0.1
125	14.8	7.0	3.9	2.4	1.3	0.7	0.5	0.1	0.0
130	14.8	7.0	4.0	2.4	1.3	0.7	0.5	0.2	0.1
135	14.8	7.0	4.0	2.3	1.3	0.8	0.4	0.2	0.1
140	14.8	7.0	4.0	2.4	1.4	0.8	0.4	0.2	0.1
145	14.6	7.0	4.0	2.4	1.3	0.8	0.4	0.2	0.0
150	14.4	7.0	4.0	2.3	1.4	0.8	0.4	0.2	0.0
155	14.2	6.9	3.9	2.2	1.3	0.7	0.4	0.3	0.0
160	13.9	6.8	3.8	2.3	1.3	0.8	0.3	0.2	0.1
165	13.5	6.6	3.7	2.3	1.4	0.7	0.4	0.2	0.1
170	13.2	6.5	3.7	2.2	1.3	0.7	0.4	0.3	0.0
175	12.8	6.3	3.6	2.1	1.3	0.7	0.4	0.2	0.0
180	12.4	6.1	3.5	2.0	1.2	0.6	0.4	0.2	0.1
185	11.9	5.9	3.3	2.0	1.1	0.6	0.3	0.1	0.0
190	11.4	5.7	3.3	2.0	1.0	0.6	0.3	0.2	0.1
195	11.0	5.5	3.2	1.8	1.1	0.6	0.3	0.1	0.1
200	10.7	5.4	3.0	1.8	1.0	0.5	0.4	0.2	0.1
205	10.4	5.2	3.0	1.7	1.0	0.5	0.3	0.2	0.1
210	10.0	5.1	2.8	1.7	0.9	0.5	0.3	0.1	0.1
215	9.6	4.9	2.8	1.6	1.0	0.5	0.2	0.2	0.1
220	9.4	4.8	2.8	1.6	0.8	0.5	0.3	0.2	0.1
225	9.0	4.7	2.7	1.5	0.9	0.5	0.2	0.1	0.0
230	8.7	4.6	2.6	1.6	0.8	0.4	0.4	0.2	0.1
235	8.6	4.5	2.5	1.5	0.8	0.4	0.3	0.1	0.1
240	8.4	4.4	2.6	1.4	0.7	0.5	0.3	0.1	0.0
245	8.2	4.3	2.5	1.5	0.8	0.5	0.3	0.2	0.2
250	8.1	4.2	2.5	1.4	0.8	0.4	0.3	0.2	0.1
255	7.9	4.2	2.5	1.4	0.8	0.4	0.3	0.1	0.1
260	7.8	4.2	2.4	1.5	0.8	0.4	0.2	0.1	0.0
265	7.8	4.2	2.5	1.4	0.7	0.4	0.2	0.1	0.1
270	7.7	4.1	2.4	1.4	0.7	0.3	0.2	0.1	0.1
275	7.7	4.1	2.5	1.3	0.8	0.4	0.2	0.1	0.1
280	7.6	4.1	2.4	1.3	0.8	0.4	0.2	0.1	0.1
285	7.6	4.1	2.4	1.4	0.7	0.4	0.3	0.2	0.1
290	7.7	4.1	2.4	1.4	0.8	0.4	0.3	0.1	0.1
295	7.8	4.2	2.4	1.4	0.8	0.4	0.2	0.2	0.1
300	7.8	4.2	2.5	1.4	0.8	0.4	0.2	0.1	0.1
305	7.9	4.3	2.5	1.5	0.8	0.4	0.3	0.2	0.1
310	8.0	4.3	2.6	1.5	0.8	0.5	0.3	0.2	0.1
315	8.1	4.4	2.5	1.4	0.9	0.5	0.2	0.2	0.1
320	8.3	4.6	2.6	1.5	0.9	0.5	0.3	0.2	0.0
325	8.4	4.6	2.6	1.6	0.9	0.4	0.3	0.1	0.2
330	8.5	4.6	2.6	1.6	0.9	0.4	0.3	0.2	0.1
335	8.6	4.6	2.7	1.7	0.9	0.6	0.3	0.2	0.0
340	8.8	4.7	2.8	1.7	0.9	0.5	0.3	0.2	0.1
345	8.9	4.8	2.8	1.7	0.9	0.5	0.3	0.1	0.1

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Photometric Data Table [Unit:cd] RLH-4003-UDM-1648-40

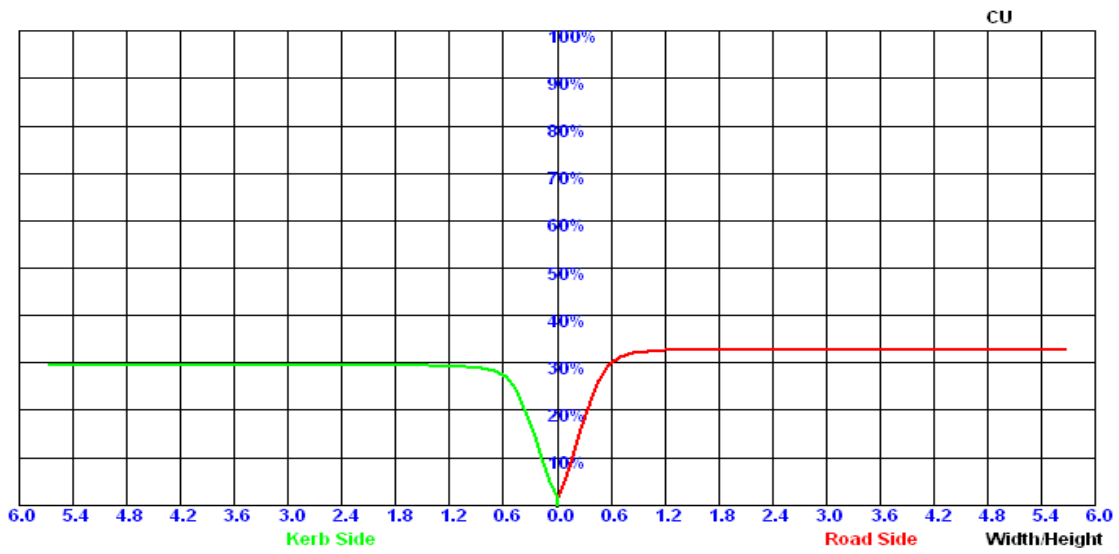
350	9.1	4.8	2.8	1.7	0.9	0.6	0.3	0.2	0.1
355	9.0	4.8	2.8	1.7	0.9	0.6	0.2	0.1	0.1
360	9.3	4.8	2.8	1.7	0.9	0.6	0.3	0.1	0.0

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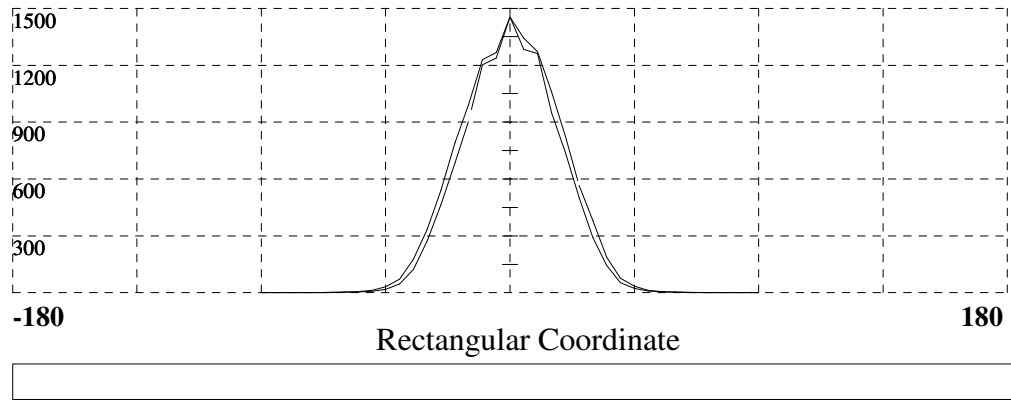
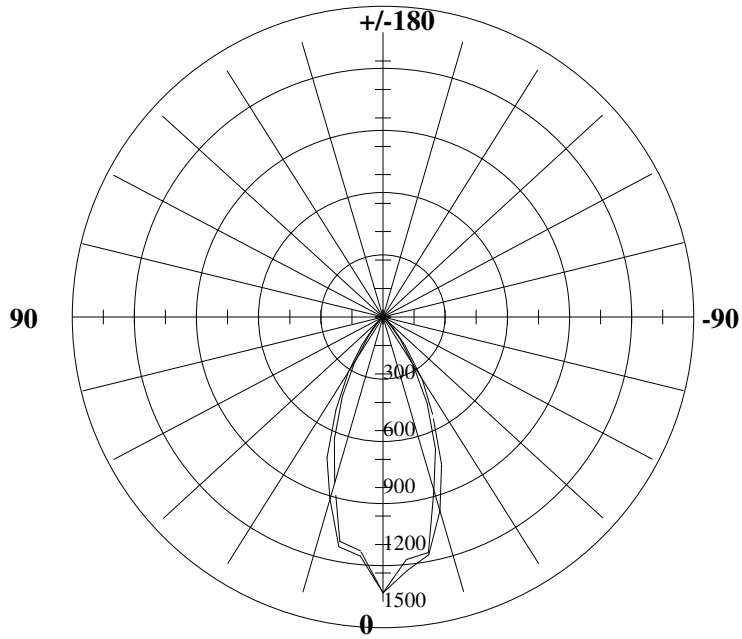
Zonal FluxRLH-4003-UDM-1648-40

Gamma [°]	I_{mean} [cd]	Zonal Flux [lm]	Sum.Flux [lm]	Zonal Flux [%]	Sum.Flux [%]
0	1454.37	0.00	0.00	0.00	0.00
5	1283.00	32.72	32.72	2.73	2.73
10	1240.92	90.29	123.01	7.52	10.25
15	974.02	131.39	254.40	10.95	21.20
20	763.83	143.22	397.62	11.94	33.14
25	525.91	135.27	532.90	11.27	44.41
30	309.78	105.76	638.65	8.81	53.22
35	158.81	69.00	707.66	5.75	58.97
40	61.61	36.78	744.43	3.06	62.04
45	27.12	16.43	760.86	1.37	63.40
50	10.77	7.66	768.52	0.64	64.04
55	5.39	3.51	772.03	0.29	64.34
60	3.07	1.96	773.99	0.16	64.50
65	1.81	1.19	775.17	0.10	64.60
70	1.03	0.72	775.89	0.06	64.66
75	0.56	0.42	776.31	0.03	64.69
80	0.31	0.23	776.54	0.02	64.71
85	0.17	0.13	776.67	0.01	64.72
90	0.07	0.07	776.74	0.01	64.73

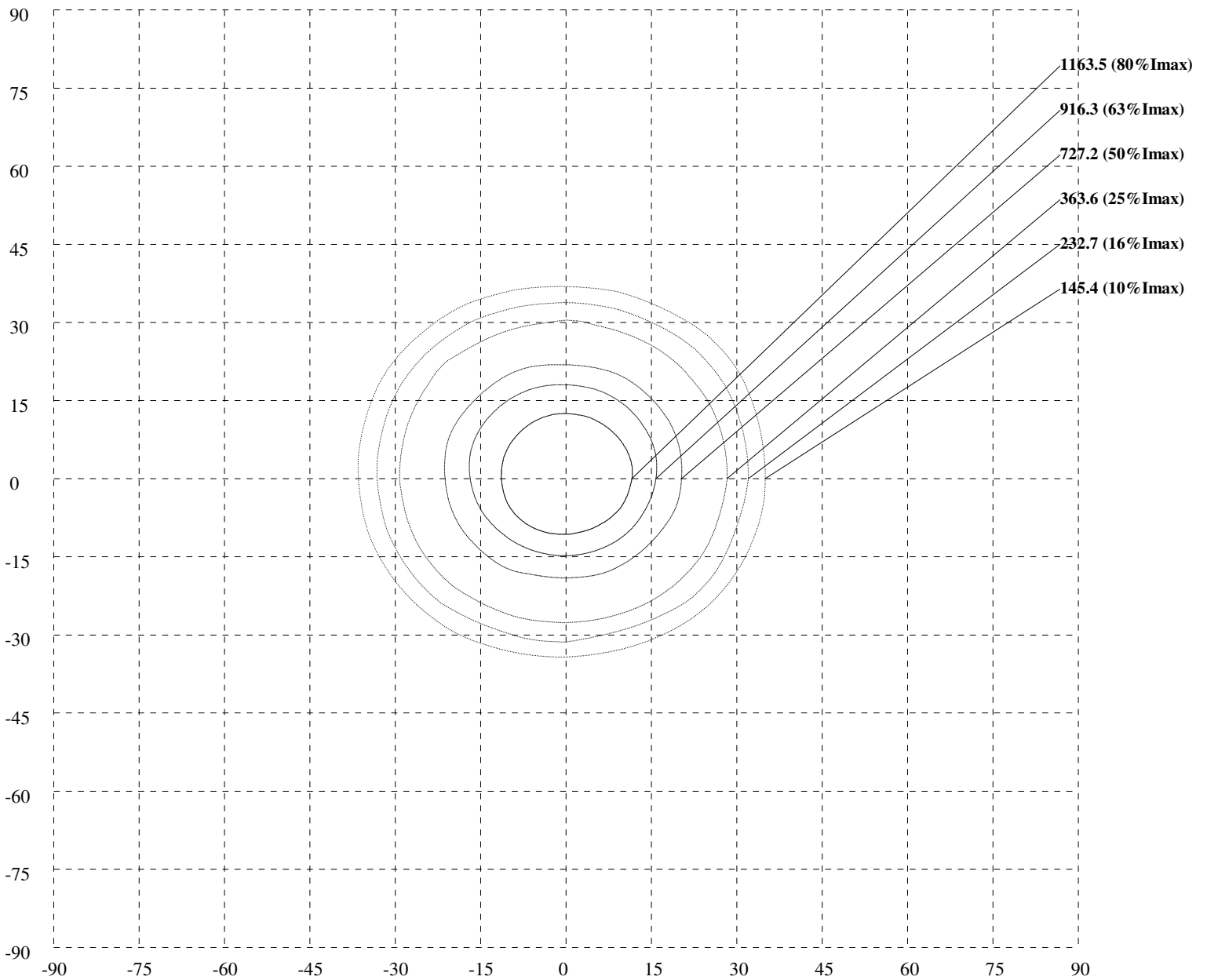
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Coefficient Utilization Curve RLH-4003-UDM-1648-40



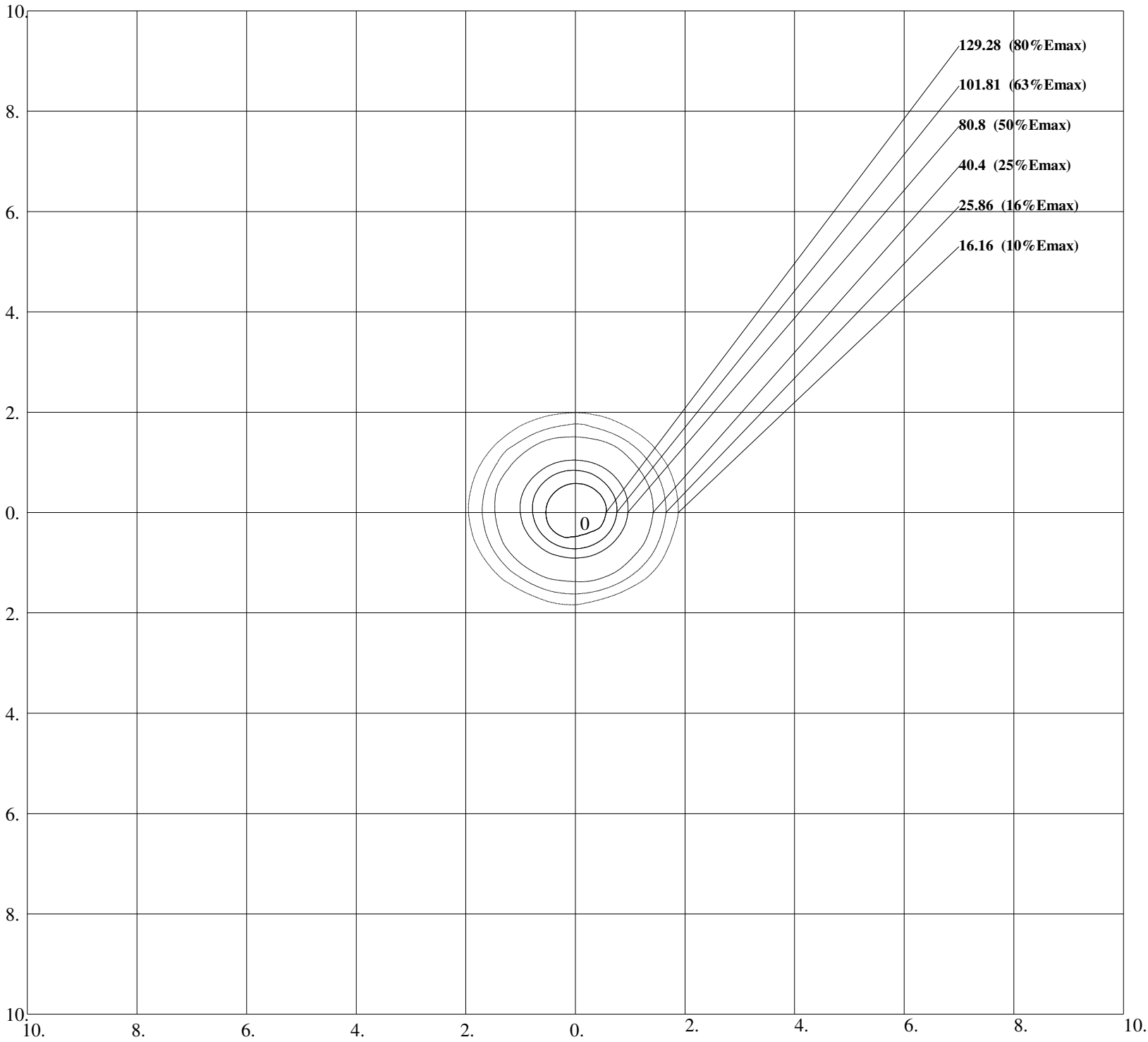
Light Distribution Curve[Unit: cd]



ISO-Candela V-H [Unit :cd]RLH-4003-UDM-1648-40



Iso-Lux [Unit :lx]RLH-4003-UDM-1648-40



Units: lx
Height: 3 m
Max Illuminance : 161.6lx

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Lux-Distance Curve

