

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P999889

Luminaire Tested: SA2XXRDIP-B675D1080UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999889
REPORT IS A COMBINATION OF REPORTS P988444 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D1080UB35-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

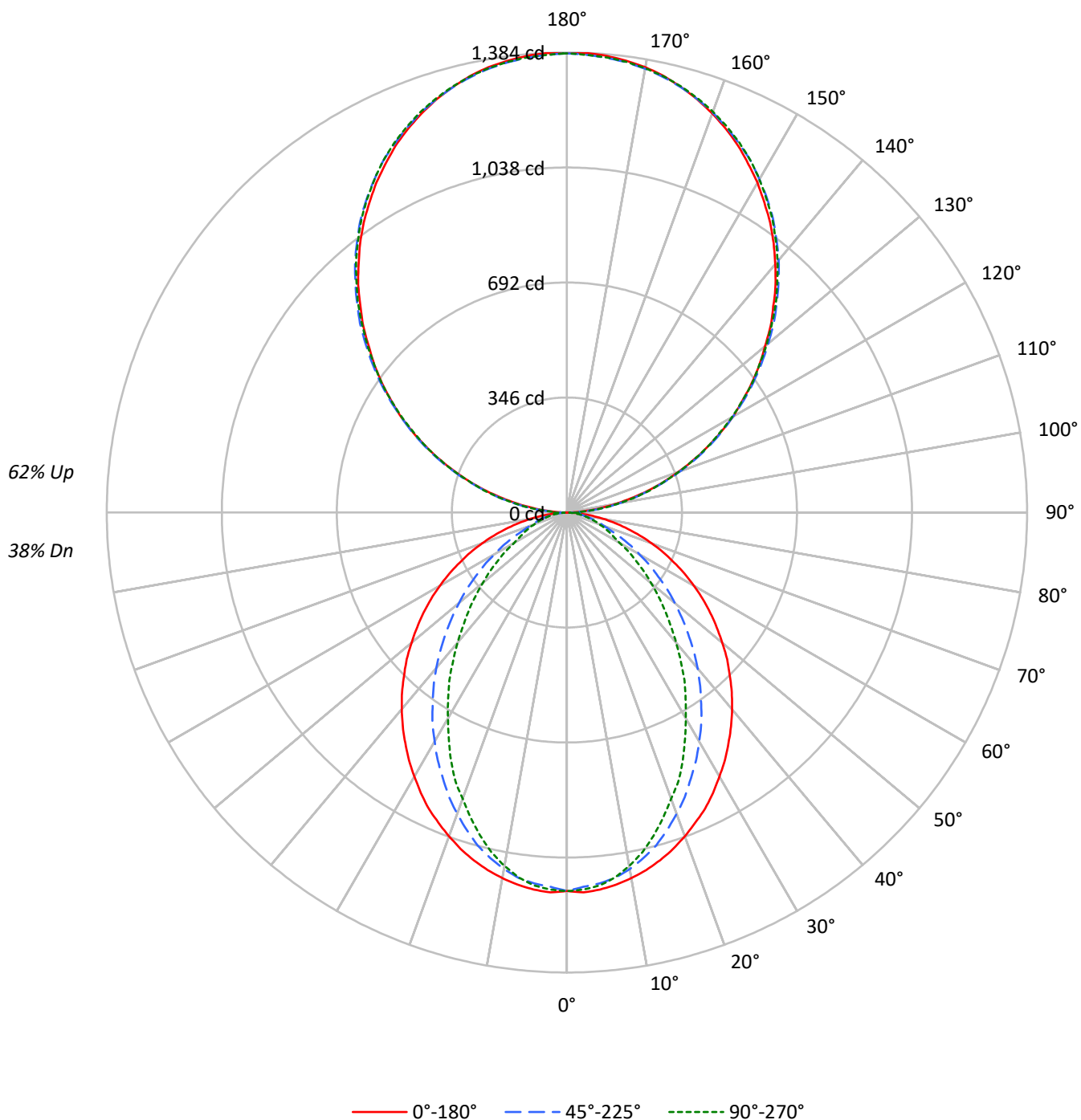
Lumens per Lamp: N/A
Luminaire Lumens: 6208.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	88	84	86	83	80	77	68	65	63	53	52	51	40	39	39
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	34	33
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	27	25
5	67	56	48	43	61	51	45	39	42	37	33	34	30	28	26	24	22
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	19	16	14
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18026	18026	18026
5°	18056	17149	17022
10°	17877	16265	15728
15°	17631	15221	14253
20°	17306	14034	12712
25°	16973	12817	11299
30°	16526	11630	9758
35°	16088	10434	8435
40°	15643	9259	7072
45°	15124	8046	5883
50°	14590	6877	4789
55°	14032	5708	3802
60°	13385	4565	2876
65°	12638	3480	2339
70°	11736	2524	1859
75°	10606	1925	1420
80°	8966	1304	952
85°	6258	598	461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.7
10°-20°	293.0	4.7
20°-30°	411.3	6.6
30°-40°	448.4	7.2
40°-50°	412.1	6.6
50°-60°	323.6	5.2
60°-70°	210.7	3.4
70°-80°	108.4	1.7
80°-90°	31.6	0.5
90°-100°	85.5	1.4
100°-110°	271.7	4.4
110°-120°	464.8	7.5
120°-130°	611.3	9.8
130°-140°	686.2	11.1
140°-150°	672.9	10.8
150°-160°	564.5	9.1
160°-170°	374.4	6.0
170°-180°	130.8	2.1
0°-30°	811.1	13.1
0°-40°	1259.4	20.3
0°-60°	1995.2	32.1
0°-90°	2345.9	37.8
90°-120°	822.0	13.2
90°-150°	2792.4	45.0
90°-180°	3862.0	62.2
0°-180°	6208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1139	1134	1120	1130	1126	108
15°	1083	1072	1037	1017	1007	305
25°	983	950	882	840	824	452
35°	847	795	704	639	616	530
45°	692	624	515	442	417	535
55°	527	446	335	273	254	471
65°	356	272	179	144	141	352
75°	190	118	82	75	74	201
85°	44	23	20	20	20	51
90°	1	15	41	38	40	6
95°	61	72	75	75	72	68
105°	251	254	256	259	259	265
115°	466	473	471	470	466	461
125°	678	689	685	682	681	606
135°	878	891	893	892	888	678
145°	1066	1074	1081	1082	1077	666
155°	1218	1222	1225	1231	1228	561
165°	1325	1324	1324	1332	1327	374
175°	1379	1376	1373	1381	1374	131
180°	1381	1381	1381	1381	1381	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1143.9	1138.8	1127.4	1137.7	1135.7
5°	1138.8	1133.6	1120.2	1129.5	1126.4
7.5°	1129.5	1123.3	1108.9	1113.0	1107.8
10°	1117.1	1109.9	1089.3	1086.2	1080.0
12.5°	1101.7	1092.4	1064.6	1058.4	1047.0
15°	1083.1	1071.8	1036.7	1017.2	1006.8
17.5°	1061.5	1045.0	1001.7	979.0	962.5
20°	1036.7	1016.1	964.6	938.8	916.2
22.5°	1009.9	986.2	926.5	891.4	876.0
25°	983.1	950.2	882.2	839.9	824.4
27.5°	951.2	916.2	840.9	792.5	768.8
30°	917.2	878.0	795.6	743.0	715.2
32.5°	884.2	836.8	752.3	690.5	664.7
35°	847.1	794.6	703.9	638.9	616.3
37.5°	811.0	754.4	658.5	587.4	561.6
40°	772.9	711.1	611.1	537.9	511.2
42.5°	733.8	667.8	563.7	487.4	461.7
45°	692.5	623.5	515.3	442.1	417.4
47.5°	653.4	580.2	468.9	395.7	373.1
50°	610.1	536.9	423.6	352.4	330.8
52.5°	567.8	490.5	380.3	312.3	292.7
55°	526.6	446.2	334.9	273.1	253.5
57.5°	484.4	401.9	294.7	237.0	220.5
60°	441.1	358.6	252.5	199.9	183.4
62.5°	398.8	316.4	216.4	166.9	158.7
65°	355.5	272.1	179.3	144.3	141.2
67.5°	314.3	230.8	144.3	126.8	123.7
70°	271.0	190.7	119.5	109.2	105.1
72.5°	229.8	153.6	100.0	91.7	89.7
75°	189.6	117.5	82.4	75.2	74.2
77.5°	149.4	83.5	64.9	60.8	58.7
80°	112.3	59.8	49.5	45.3	45.3
82.5°	78.3	40.2	34.0	31.9	31.9
85°	44.3	22.7	19.6	19.6	19.6
87.5°	16.5	8.2	8.2	7.2	7.2
90°	1.2	15.2	40.8	38.5	39.6
92.5°	25.6	35.0	36.1	37.3	37.3
95°	60.6	72.3	74.6	74.6	72.3
97.5°	101.4	111.9	116.6	116.6	116.6
100°	148.0	157.4	160.9	160.9	159.7
102.5°	197.0	204.0	208.7	209.8	208.7
105°	250.6	254.1	256.5	258.8	258.8
107.5°	304.3	308.9	308.9	310.1	304.3
110°	355.5	362.5	362.5	362.5	359.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	411.5	418.5	417.3	413.8	411.5
115°	466.3	473.3	471.0	469.8	466.3
117.5°	521.1	530.4	524.6	521.1	517.6
120°	575.9	585.2	575.9	575.9	572.4
122.5°	626.0	637.6	631.8	628.3	626.0
125°	678.4	688.9	685.4	681.9	680.8
127.5°	729.7	742.6	737.9	733.2	729.7
130°	777.5	792.7	790.4	788.0	783.4
132.5°	831.2	842.8	844.0	838.2	834.7
135°	877.8	890.6	892.9	891.8	888.3
137.5°	929.1	939.6	941.9	940.7	936.1
140°	974.5	985.0	990.9	990.9	986.2
142.5°	1021.2	1031.7	1035.2	1036.3	1031.7
145°	1065.5	1073.6	1080.6	1081.8	1077.1
147.5°	1105.1	1115.6	1120.3	1122.6	1117.9
150°	1145.9	1152.9	1157.6	1161.1	1157.6
152.5°	1182.0	1189.0	1194.9	1199.5	1194.9
155°	1218.2	1221.7	1225.2	1231.0	1227.5
157.5°	1249.7	1252.0	1254.3	1262.5	1256.6
160°	1277.6	1280.0	1281.1	1288.1	1283.5
162.5°	1303.3	1303.3	1304.4	1312.6	1306.8
165°	1325.4	1324.3	1324.3	1332.4	1326.6
167.5°	1345.2	1341.7	1341.7	1349.9	1344.1
170°	1360.4	1356.9	1355.7	1363.9	1356.9
172.5°	1370.9	1367.4	1366.2	1374.4	1367.4
175°	1379.0	1375.5	1373.2	1381.4	1374.4
177.5°	1383.7	1380.2	1377.9	1384.9	1377.9
180°	1381.4	1381.4	1381.4	1381.4	1381.4

(END OF REPORT)