

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: P999883

Luminaire Tested: SA2XXRDIP-B675D1080UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999883
REPORT IS A COMBINATION OF REPORTS P988438 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D1080UB30-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

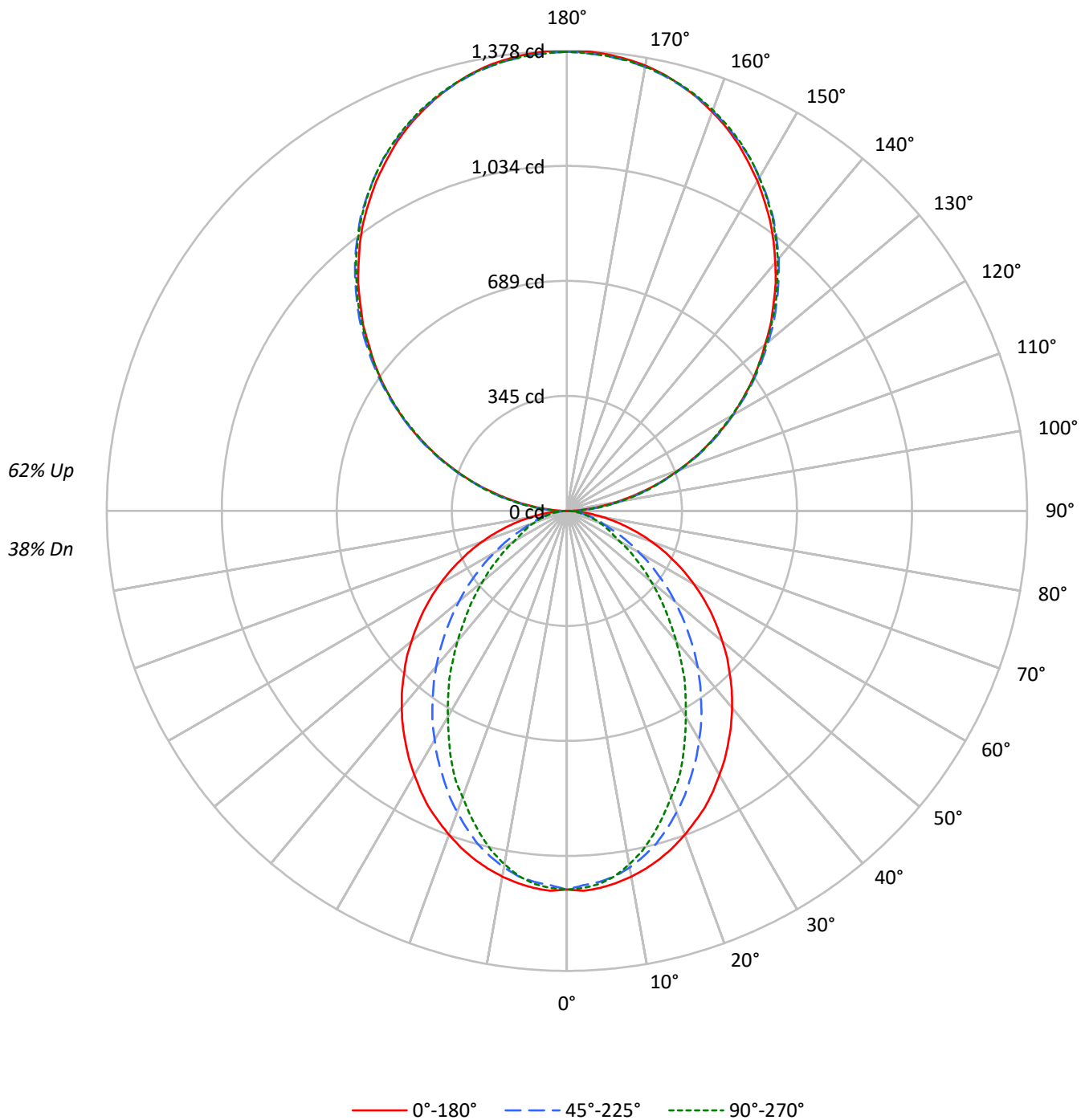
Lumens per Lamp: N/A
Luminaire Lumens: 6182.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	17949	17949	17949
5°	17978	17076	16950
10°	17800	16195	15661
15°	17557	15156	14192
20°	17232	13974	12656
25°	16900	12761	11251
30°	16456	11581	9716
35°	16019	10390	8398
40°	15576	9219	7042
45°	15061	8012	5858
50°	14527	6847	4769
55°	13973	5684	3785
60°	13327	4545	2865
65°	12584	3464	2329
70°	11689	2513	1852
75°	10562	1918	1414
80°	8934	1299	950
85°	6229	595	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.7
10°-20°	291.7	4.7
20°-30°	409.6	6.6
30°-40°	446.5	7.2
40°-50°	410.3	6.6
50°-60°	322.3	5.2
60°-70°	209.8	3.4
70°-80°	108.0	1.7
80°-90°	31.5	0.5
90°-100°	85.1	1.4
100°-110°	270.5	4.4
110°-120°	462.9	7.5
120°-130°	608.8	9.8
130°-140°	683.4	11.1
140°-150°	670.1	10.8
150°-160°	562.1	9.1
160°-170°	372.8	6.0
170°-180°	130.3	2.1
0°-30°	807.6	13.1
0°-40°	1254.0	20.3
0°-60°	1986.6	32.1
0°-90°	2335.9	37.8
90°-120°	818.5	13.2
90°-150°	2780.8	45.0
90°-180°	3846.0	62.2
0°-180°	6182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1134	1129	1115	1125	1122	108
15°	1078	1067	1032	1013	1002	304
25°	979	946	878	836	821	450
35°	844	791	701	636	614	528
45°	690	621	513	440	416	533
55°	524	444	334	272	252	469
65°	354	271	178	144	141	351
75°	189	117	82	75	74	200
85°	44	23	20	20	20	51
90°	1	15	41	38	40	6
95°	60	72	74	74	72	67
105°	250	253	255	258	258	264
115°	464	471	469	468	464	459
125°	676	686	683	679	678	604
135°	874	887	889	888	885	675
145°	1061	1069	1076	1077	1073	663
155°	1213	1217	1220	1226	1222	558
165°	1320	1319	1319	1327	1321	372
175°	1373	1370	1368	1376	1369	130
180°	1376	1376	1376	1376	1376	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1139.0	1133.9	1122.6	1132.9	1130.8
5°	1133.9	1128.8	1115.4	1124.7	1121.6
7.5°	1124.7	1118.5	1104.1	1108.2	1103.1
10°	1112.3	1105.2	1084.6	1081.6	1075.4
12.5°	1097.0	1087.7	1060.0	1053.9	1042.6
15°	1078.5	1067.2	1032.3	1012.8	1002.5
17.5°	1056.9	1040.5	997.4	974.8	958.4
20°	1032.3	1011.8	960.5	934.8	912.2
22.5°	1005.6	982.0	922.5	887.6	872.2
25°	978.9	946.1	878.4	836.3	820.9
27.5°	947.1	912.2	837.3	789.1	765.5
30°	913.3	874.3	792.2	739.9	712.1
32.5°	880.4	833.2	749.1	687.5	661.9
35°	843.5	791.2	700.9	636.2	613.6
37.5°	807.6	751.1	655.7	584.9	559.3
40°	769.6	708.0	608.5	535.6	509.0
42.5°	730.6	664.9	561.3	485.4	459.7
45°	689.6	620.8	513.1	440.2	415.6
47.5°	650.6	577.7	466.9	394.0	371.5
50°	607.5	534.6	421.7	350.9	329.4
52.5°	565.4	488.4	378.6	310.9	291.4
55°	524.4	444.3	333.5	271.9	252.4
57.5°	482.3	400.2	293.5	236.0	219.6
60°	439.2	357.1	251.4	199.1	182.7
62.5°	397.1	315.0	215.5	166.2	158.0
65°	354.0	270.9	178.5	143.7	140.6
67.5°	313.0	229.9	143.7	126.2	123.1
70°	269.9	189.8	119.0	108.8	104.7
72.5°	228.8	152.9	99.5	91.3	89.3
75°	188.8	117.0	82.1	74.9	73.9
77.5°	148.8	83.1	64.6	60.5	58.5
80°	111.9	59.5	49.3	45.2	45.2
82.5°	78.0	40.0	33.9	31.8	31.8
85°	44.1	22.6	19.5	19.5	19.5
87.5°	16.4	8.2	8.2	7.2	7.2
90°	1.2	15.1	40.6	38.3	39.5
92.5°	25.5	34.8	36.0	37.1	37.1
95°	60.4	72.0	74.3	74.3	72.0
97.5°	101.0	111.4	116.1	116.1	116.1
100°	147.4	156.7	160.2	160.2	159.0
102.5°	196.2	203.2	207.8	209.0	207.8
105°	249.6	253.1	255.4	257.7	257.7
107.5°	303.0	307.6	307.6	308.8	303.0
110°	354.1	361.0	361.0	361.0	357.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	409.8	416.8	415.6	412.1	409.8
115°	464.4	471.3	469.0	467.8	464.4
117.5°	518.9	528.2	522.4	518.9	515.4
120°	573.5	582.8	573.5	573.5	570.0
122.5°	623.4	635.0	629.2	625.7	623.4
125°	675.6	686.1	682.6	679.1	678.0
127.5°	726.7	739.5	734.8	730.2	726.7
130°	774.3	789.4	787.1	784.8	780.1
132.5°	827.7	839.3	840.5	834.7	831.2
135°	874.2	886.9	889.2	888.1	884.6
137.5°	925.2	935.7	938.0	936.8	932.2
140°	970.5	981.0	986.8	986.8	982.1
142.5°	1016.9	1027.4	1030.9	1032.0	1027.4
145°	1061.1	1069.2	1076.1	1077.3	1072.7
147.5°	1100.5	1111.0	1115.6	1117.9	1113.3
150°	1141.2	1148.1	1152.8	1156.3	1152.8
152.5°	1177.1	1184.1	1189.9	1194.6	1189.9
155°	1213.1	1216.6	1220.1	1225.9	1222.4
157.5°	1244.5	1246.8	1249.1	1257.2	1251.4
160°	1272.3	1274.7	1275.8	1282.8	1278.1
162.5°	1297.9	1297.9	1299.0	1307.2	1301.4
165°	1319.9	1318.8	1318.8	1326.9	1321.1
167.5°	1339.7	1336.2	1336.2	1344.3	1338.5
170°	1354.8	1351.3	1350.1	1358.2	1351.3
172.5°	1365.2	1361.7	1360.6	1368.7	1361.7
175°	1373.3	1369.9	1367.5	1375.7	1368.7
177.5°	1378.0	1374.5	1372.2	1379.1	1372.2
180°	1375.7	1375.7	1375.7	1375.7	1375.7

(END OF REPORT)