

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: P999882

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999882
REPORT IS A COMBINATION OF REPORTS P988437 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-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

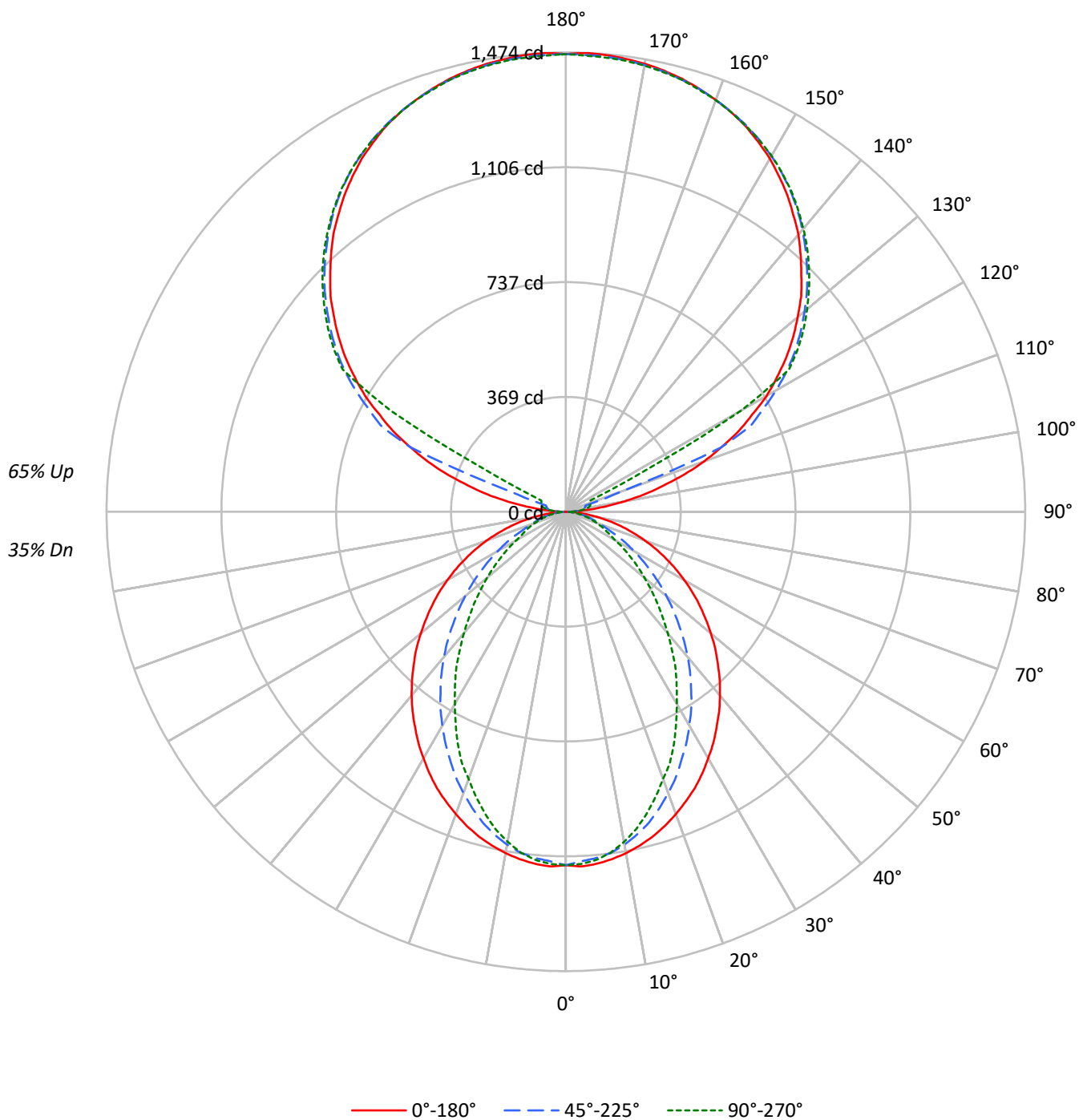
Lumens per Lamp: N/A
Luminaire Lumens: 6639.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	94	94	94	94	75	75	75	58	58	58	42	42	42
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	36
2	87	80	74	69	78	72	67	63	58	55	52	46	43	41	34	32	31
3	79	70	63	58	71	64	58	53	52	48	44	41	38	35	30	29	27
4	73	62	55	49	65	57	50	45	46	41	38	36	33	31	27	25	24
5	67	56	48	42	60	51	44	39	41	36	33	33	29	27	25	22	21
6	61	50	42	37	55	46	39	34	37	32	29	30	26	23	23	20	18
7	57	45	37	32	51	41	35	30	34	29	25	27	23	21	21	18	16
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	19	17	15
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	13
10	46	34	27	23	41	31	25	21	26	21	18	21	18	15	16	14	12

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	1.6
10°-20°	291.7	4.4
20°-30°	409.6	6.2
30°-40°	446.5	6.7
40°-50°	410.3	6.2
50°-60°	322.3	4.9
60°-70°	209.8	3.2
70°-80°	108.0	1.6
80°-90°	30.2	0.5
90°-100°	48.4	0.7
100°-110°	180.5	2.7
110°-120°	478.7	7.2
120°-130°	793.9	12.0
130°-140°	843.3	12.7
140°-150°	783.8	11.8
150°-160°	630.1	9.5
160°-170°	406.0	6.1
170°-180°	139.7	2.1
0°-30°	807.6	12.2
0°-40°	1254.0	18.9
0°-60°	1986.6	29.9
0°-90°	2334.6	35.2
90°-120°	707.6	10.7
90°-150°	3128.5	47.1
90°-180°	4304.0	64.8
0°-180°	6639.0	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	13	21	27	29	6
95°	69	34	41	47	46	82
105°	323	355	65	76	81	345
115°	611	629	656	164	87	601
125°	864	878	898	905	908	770
135°	1069	1086	1095	1106	1104	826
145°	1240	1239	1257	1264	1259	775
155°	1365	1356	1368	1375	1366	629
165°	1438	1432	1435	1443	1435	406
175°	1471	1464	1466	1474	1463	140
180°	1468	1468	1468	1468	1468	

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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°	1.1	12.7	21.2	26.6	28.7
92.5°	26.6	22.3	25.5	27.6	28.7
95°	69.1	34.0	41.4	46.7	45.7
97.5°	124.3	37.2	54.2	57.4	58.4
100°	188.0	42.5	60.6	69.1	71.2
102.5°	258.2	256.0	62.7	74.4	77.6
105°	323.0	354.8	64.8	76.5	80.7
107.5°	398.4	425.0	66.9	78.6	82.9
110°	470.6	493.0	185.9	79.7	83.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	538.6	557.8	539.7	81.8	85.0
115°	610.9	628.9	655.5	163.6	87.1
117.5°	673.6	694.8	712.9	561.0	282.6
120°	743.7	759.6	778.8	791.5	648.1
122.5°	803.2	820.2	841.4	847.8	848.9
125°	863.7	877.6	897.7	905.2	908.4
127.5°	919.0	933.9	949.8	960.4	961.5
130°	971.0	988.0	999.7	1011.4	1010.4
132.5°	1024.2	1038.0	1049.7	1059.2	1058.2
135°	1068.8	1085.8	1095.3	1106.0	1103.8
137.5°	1115.5	1128.3	1138.9	1149.5	1146.3
140°	1161.2	1169.7	1181.4	1191.0	1185.7
142.5°	1199.5	1206.9	1220.7	1229.2	1223.9
145°	1239.8	1238.8	1256.8	1264.3	1259.0
147.5°	1274.9	1271.7	1289.8	1295.1	1290.8
150°	1308.9	1301.5	1318.5	1324.8	1319.5
152.5°	1337.6	1329.1	1345.0	1351.4	1344.0
155°	1365.2	1355.6	1368.4	1374.8	1366.3
157.5°	1387.5	1379.0	1388.6	1396.0	1387.5
160°	1406.6	1400.3	1406.6	1413.0	1405.6
162.5°	1423.6	1417.3	1422.6	1430.0	1420.4
165°	1438.5	1432.1	1435.3	1442.8	1435.3
167.5°	1450.2	1443.8	1447.0	1454.4	1444.9
170°	1459.8	1453.4	1455.5	1462.9	1453.4
172.5°	1466.1	1459.8	1461.9	1469.3	1459.8
175°	1471.4	1464.0	1466.1	1473.6	1462.9
177.5°	1473.6	1466.1	1467.2	1474.6	1465.1
180°	1468.3	1468.3	1468.3	1468.3	1468.3

(END OF REPORT)