

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: P1000024

Luminaire Tested: SA2XXRDIP-B675D925UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000024
REPORT IS A COMBINATION OF REPORTS P988581 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D925UB27-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

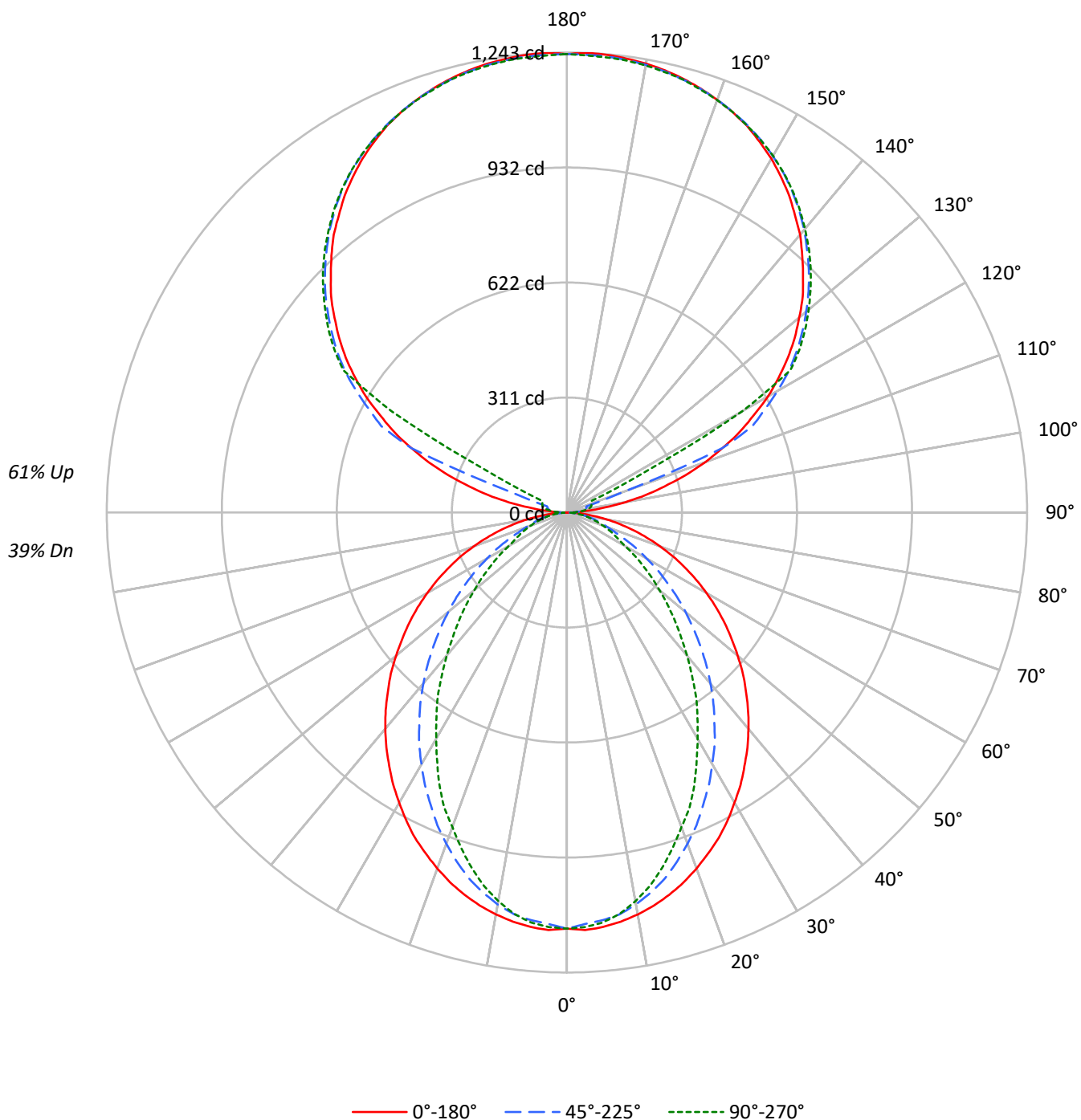
Lumens per Lamp: N/A
Luminaire Lumens: 5946.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 64.4
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	96	92	88	85	87	83	80	77	68	66	64	54	53	51	41	40	39
2	87	80	75	70	79	73	68	64	60	57	54	48	46	43	37	35	34
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29
4	73	63	55	50	66	58	51	46	48	43	39	38	35	32	30	27	25
5	67	56	48	43	61	52	45	40	43	38	34	34	31	28	27	24	22
6	62	51	43	37	56	46	40	35	39	33	30	31	28	25	24	22	20
7	57	46	38	33	52	42	35	30	35	30	26	29	25	22	22	20	18
8	53	41	34	29	48	38	32	27	32	27	23	26	22	20	21	18	16
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	17	15
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17795	17795	17795
5°	17824	16930	16805
10°	17648	16056	15527
15°	17405	15027	14070
20°	17086	13854	12548
25°	16757	12653	11155
30°	16314	11481	9633
35°	15883	10299	8327
40°	15442	9141	6981
45°	14932	7943	5807
50°	14403	6788	4728
55°	13853	5634	3754
60°	13212	4507	2840
65°	12478	3435	2309
70°	11589	2492	1836
75°	10472	1901	1401
80°	8854	1286	942
85°	6173	588	454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	1.8
10°-20°	289.2	4.9
20°-30°	406.1	6.8
30°-40°	442.6	7.4
40°-50°	406.8	6.8
50°-60°	319.5	5.4
60°-70°	208.0	3.5
70°-80°	107.1	1.8
80°-90°	29.5	0.5
90°-100°	40.9	0.7
100°-110°	152.3	2.6
110°-120°	403.9	6.8
120°-130°	669.8	11.3
130°-140°	711.5	12.0
140°-150°	661.3	11.1
150°-160°	531.6	8.9
160°-170°	342.6	5.8
170°-180°	117.9	2.0
0°-30°	800.7	13.5
0°-40°	1243.3	20.9
0°-60°	1969.7	33.1
0°-90°	2314.2	38.9
90°-120°	597.0	10.0
90°-150°	2639.6	44.4
90°-180°	3632.0	61.1
0°-180°	5946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1124	1119	1106	1115	1112	107
15°	1069	1058	1024	1004	994	301
25°	971	938	871	829	814	446
35°	836	784	695	631	608	523
45°	684	616	509	436	412	528
55°	520	440	331	270	250	465
65°	351	269	177	142	139	348
75°	187	116	81	74	73	198
85°	44	22	19	19	19	50
90°	1	11	18	22	24	6
95°	58	29	35	39	38	69
105°	272	299	55	64	68	291
115°	515	531	553	138	74	507
125°	729	740	758	764	766	650
135°	902	916	924	933	931	697
145°	1046	1045	1060	1067	1062	654
155°	1152	1144	1155	1160	1153	531
165°	1214	1208	1211	1217	1211	343
175°	1242	1235	1237	1243	1234	118
180°	1239	1239	1239	1239	1239	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1129.3	1124.2	1113.0	1123.2	1121.1
5°	1124.2	1119.1	1105.9	1115.0	1112.0
7.5°	1115.0	1108.9	1094.7	1098.7	1093.6
10°	1102.8	1095.7	1075.3	1072.3	1066.2
12.5°	1087.5	1078.4	1050.9	1044.8	1033.6
15°	1069.2	1058.0	1023.5	1004.1	993.9
17.5°	1047.9	1031.6	988.9	966.5	950.2
20°	1023.5	1003.1	952.2	926.8	904.4
22.5°	997.0	973.6	914.6	880.0	864.7
25°	970.6	938.0	870.9	829.1	813.9
27.5°	939.0	904.4	830.2	782.3	758.9
30°	905.4	866.8	785.4	733.5	706.0
32.5°	872.9	826.1	742.7	681.6	656.2
35°	836.3	784.4	694.8	630.8	608.4
37.5°	800.7	744.7	650.1	579.9	554.5
40°	763.0	702.0	603.3	531.1	504.6
42.5°	724.4	659.2	556.5	481.2	455.8
45°	683.7	615.5	508.7	436.4	412.0
47.5°	645.0	572.8	462.9	390.7	368.3
50°	602.3	530.0	418.1	347.9	326.6
52.5°	560.6	484.3	375.4	308.3	288.9
55°	519.9	440.5	330.6	269.6	250.3
57.5°	478.2	396.8	291.0	234.0	217.7
60°	435.4	354.0	249.3	197.4	181.1
62.5°	393.7	312.3	213.6	164.8	156.7
65°	351.0	268.6	177.0	142.4	139.4
67.5°	310.3	227.9	142.4	125.1	122.1
70°	267.6	188.2	118.0	107.8	103.8
72.5°	226.9	151.6	98.7	90.5	88.5
75°	187.2	116.0	81.4	74.3	73.2
77.5°	147.5	82.4	64.1	60.0	58.0
80°	110.9	59.0	48.8	44.8	44.8
82.5°	77.3	39.7	33.6	31.5	31.5
85°	43.7	22.4	19.3	19.3	19.3
87.5°	16.3	8.1	8.1	7.1	7.1
90°	0.9	10.8	17.9	22.4	24.2
92.5°	22.4	18.8	21.5	23.3	24.2
95°	58.3	28.7	35.0	39.4	38.5
97.5°	104.9	31.4	45.7	48.4	49.3
100°	158.7	35.9	51.1	58.3	60.1
102.5°	217.8	216.0	52.9	62.7	65.4
105°	272.5	299.4	54.7	64.5	68.1
107.5°	336.2	358.6	56.5	66.3	69.9
110°	397.1	415.9	156.9	67.2	70.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.5	470.6	455.4	69.0	71.7
115°	515.4	530.7	553.1	138.0	73.5
117.5°	568.3	586.2	601.5	473.3	238.4
120°	627.5	640.9	657.1	667.8	546.8
122.5°	677.7	692.0	710.0	715.3	716.2
125°	728.8	740.4	757.5	763.7	766.4
127.5°	775.4	787.9	801.4	810.4	811.2
130°	819.3	833.7	843.5	853.4	852.5
132.5°	864.1	875.8	885.6	893.7	892.8
135°	901.8	916.1	924.2	933.2	931.4
137.5°	941.2	952.0	960.9	969.9	967.2
140°	979.8	986.9	996.8	1004.9	1000.4
142.5°	1012.0	1018.3	1030.0	1037.1	1032.7
145°	1046.1	1045.2	1060.4	1066.7	1062.2
147.5°	1075.7	1073.0	1088.2	1092.7	1089.1
150°	1104.4	1098.1	1112.4	1117.8	1113.3
152.5°	1128.6	1121.4	1134.8	1140.2	1134.0
155°	1151.9	1143.8	1154.6	1159.9	1152.8
157.5°	1170.7	1163.5	1171.6	1177.9	1170.7
160°	1186.8	1181.5	1186.8	1192.2	1185.9
162.5°	1201.2	1195.8	1200.3	1206.6	1198.5
165°	1213.7	1208.4	1211.0	1217.3	1211.0
167.5°	1223.6	1218.2	1220.9	1227.2	1219.1
170°	1231.7	1226.3	1228.1	1234.3	1226.3
172.5°	1237.0	1231.7	1233.5	1239.7	1231.7
175°	1241.5	1235.2	1237.0	1243.3	1234.3
177.5°	1243.3	1237.0	1237.9	1244.2	1236.1
180°	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)