

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: P1000025

Luminaire Tested: SA2XXRDIP-B675D925UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000025
REPORT IS A COMBINATION OF REPORTS P988582 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-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

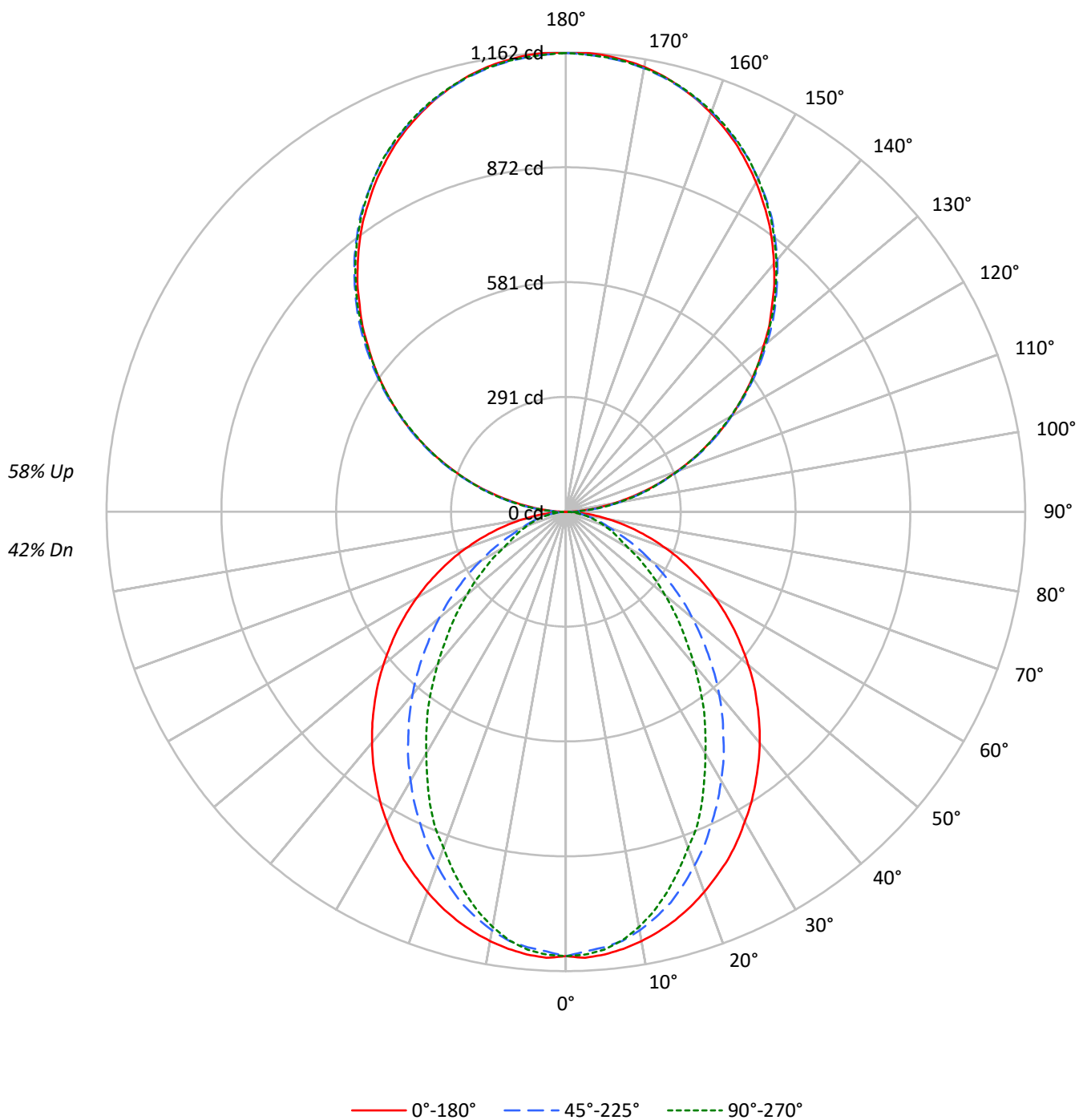
Lumens per Lamp: N/A
Luminaire Lumens: 5560.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	81	71	64	59	73	66	60	55	54	50	46	44	41	38	35	33	31
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	28	26	24
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

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	1.9
10°-20°	289.2	5.2
20°-30°	406.1	7.3
30°-40°	442.6	8.0
40°-50°	406.8	7.3
50°-60°	319.5	5.7
60°-70°	208.0	3.7
70°-80°	107.1	1.9
80°-90°	30.6	0.6
90°-100°	71.8	1.3
100°-110°	228.2	4.1
110°-120°	390.5	7.0
120°-130°	513.6	9.2
130°-140°	576.5	10.4
140°-150°	565.4	10.2
150°-160°	474.2	8.5
160°-170°	314.5	5.7
170°-180°	109.9	2.0
0°-30°	800.7	14.4
0°-40°	1243.3	22.4
0°-60°	1969.7	35.4
0°-90°	2315.3	41.6
90°-120°	690.5	12.4
90°-150°	2346.0	42.2
90°-180°	3245.0	58.4
0°-180°	5560.0	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	13	34	32	33	5
95°	51	61	63	63	61	57
105°	211	214	216	217	217	222
115°	392	398	396	395	392	388
125°	570	579	576	573	572	509
135°	738	748	750	749	746	570
145°	895	902	908	909	905	559
155°	1023	1026	1029	1034	1031	471
165°	1114	1113	1113	1119	1114	314
175°	1159	1156	1154	1161	1155	110
180°	1161	1161	1161	1161	1161	

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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°	1.0	12.7	34.3	32.3	33.3
92.5°	21.5	29.4	30.4	31.3	31.3
95°	50.9	60.7	62.7	62.7	60.7
97.5°	85.2	94.0	97.9	97.9	97.9
100°	124.4	132.2	135.2	135.2	134.2
102.5°	165.5	171.4	175.3	176.3	175.3
105°	210.6	213.5	215.5	217.4	217.4
107.5°	255.6	259.5	259.5	260.5	255.6
110°	298.7	304.6	304.6	304.6	301.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	345.7	351.6	350.6	347.7	345.7
115°	391.7	397.6	395.7	394.7	391.7
117.5°	437.8	445.6	440.7	437.8	434.8
120°	483.8	491.6	483.8	483.8	480.9
122.5°	525.9	535.7	530.8	527.9	525.9
125°	570.0	578.8	575.9	572.9	572.0
127.5°	613.1	623.9	619.9	616.0	613.1
130°	653.2	666.0	664.0	662.1	658.1
132.5°	698.3	708.1	709.1	704.2	701.2
135°	737.5	748.2	750.2	749.2	746.3
137.5°	780.6	789.4	791.3	790.4	786.4
140°	818.8	827.6	832.5	832.5	828.5
142.5°	857.9	866.7	869.7	870.7	866.7
145°	895.1	902.0	907.9	908.9	904.9
147.5°	928.4	937.3	941.2	943.1	939.2
150°	962.7	968.6	972.5	975.5	972.5
152.5°	993.1	999.0	1003.9	1007.8	1003.9
155°	1023.4	1026.4	1029.3	1034.2	1031.3
157.5°	1049.9	1051.8	1053.8	1060.7	1055.8
160°	1073.4	1075.4	1076.3	1082.2	1078.3
162.5°	1094.9	1094.9	1095.9	1102.8	1097.9
165°	1113.5	1112.6	1112.6	1119.4	1114.5
167.5°	1130.2	1127.3	1127.3	1134.1	1129.2
170°	1142.9	1140.0	1139.0	1145.9	1140.0
172.5°	1151.7	1148.8	1147.8	1154.7	1148.8
175°	1158.6	1155.7	1153.7	1160.6	1154.7
177.5°	1162.5	1159.6	1157.6	1163.5	1157.6
180°	1160.6	1160.6	1160.6	1160.6	1160.6

(END OF REPORT)