

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: P1028263

Luminaire Tested: S125DIP-B850D1270UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028263
REPORT IS A COMBINATION OF REPORTS P1002520 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

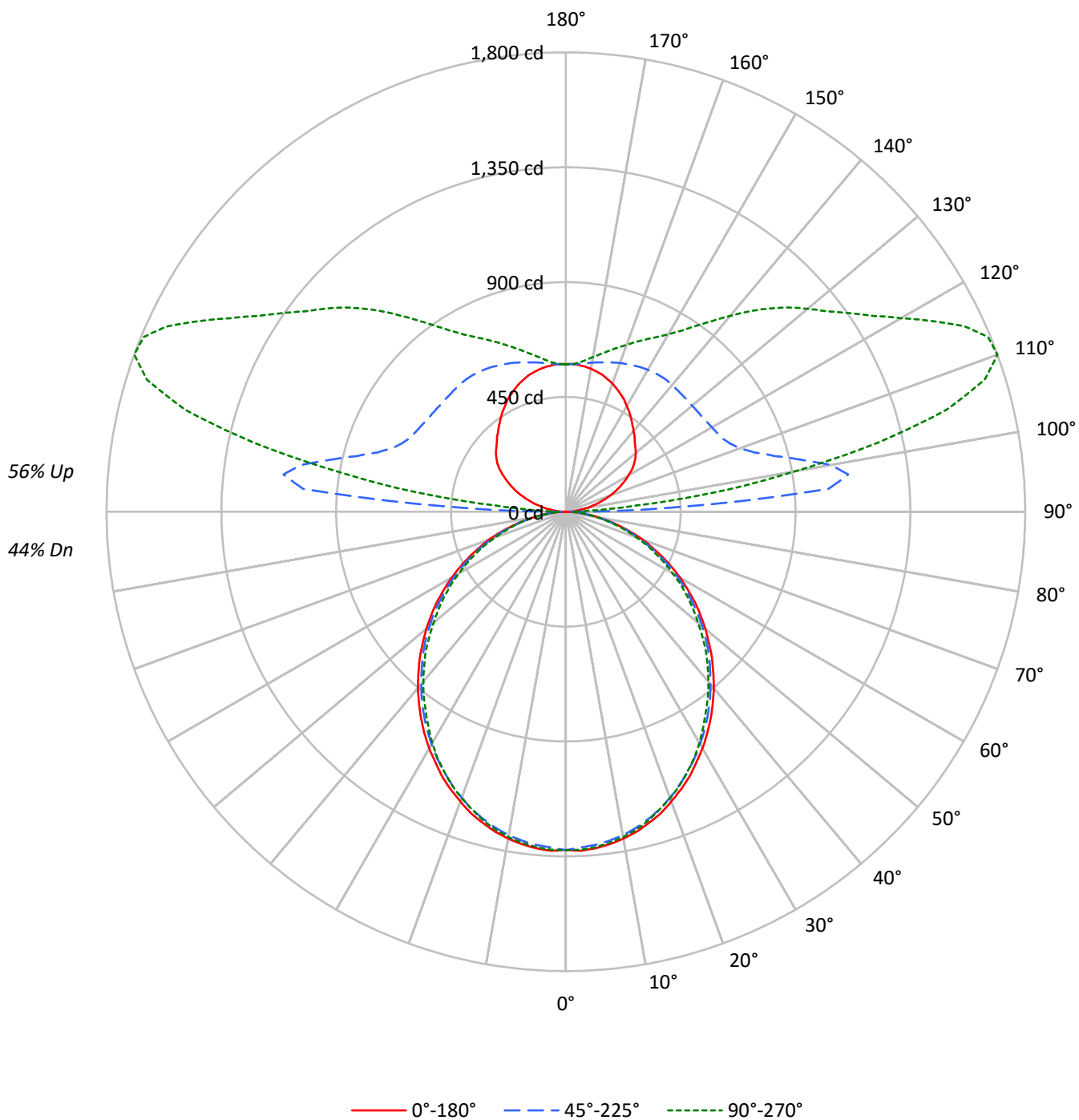
Lumens per Lamp: N/A
Luminaire Lumens: 7805.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36
3	80	71	63	58	73	65	59	53	54	49	46	44	41	38	35	33	31
4	73	62	55	49	67	57	51	45	48	43	39	39	36	32	31	29	26
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20
7	57	45	37	32	52	42	34	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8493	8493	8493
5°	8493	8295	8311
10°	8423	8105	8080
15°	8313	7878	7807
20°	8163	7614	7494
25°	8002	7327	7160
30°	7809	7027	6807
35°	7602	6713	6412
40°	7388	6380	6060
45°	7157	6057	5687
50°	6902	5690	5252
55°	6650	5285	4852
60°	6350	4858	4386
65°	5990	4364	3905
70°	5625	3796	3349
75°	5011	3125	2708
80°	4269	2334	1992
85°	3299	1380	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.6
10°-20°	353.3	4.5
20°-30°	521.6	6.7
30°-40°	608.6	7.8
40°-50°	611.2	7.8
50°-60°	536.5	6.9
60°-70°	399.6	5.1
70°-80°	228.2	2.9
80°-90°	68.2	0.9
90°-100°	435.6	5.6
100°-110°	904.8	11.6
110°-120°	845.1	10.8
120°-130°	683.8	8.8
130°-140°	549.4	7.0
140°-150°	414.7	5.3
150°-160°	292.0	3.7
160°-170°	172.1	2.2
170°-180°	56.0	0.7
0°-30°	1000.0	12.8
0°-40°	1608.5	20.6
0°-60°	2756.3	35.3
0°-90°	3452.3	44.2
90°-120°	2185.5	28.0
90°-150°	3833.5	49.1
90°-180°	4354.0	55.8
0°-180°	7805.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1323	1321	1311	1320	1319	126
15°	1262	1258	1247	1252	1252	356
25°	1145	1140	1126	1128	1125	527
35°	989	985	970	965	956	619
45°	810	805	793	780	777	624
55°	617	614	599	589	582	550
65°	416	414	403	393	389	413
75°	221	219	214	211	207	236
85°	58	59	59	58	56	63
90°	1	10	19	24	27	7
95°	38	114	1033	469	274	40
105°	132	184	846	1665	1545	139
115°	236	284	679	1463	1721	232
125°	326	382	651	1164	1356	290
135°	382	460	646	976	1127	297
145°	446	510	648	808	889	279
155°	508	547	632	714	745	234
165°	555	570	606	643	653	156
175°	577	577	582	589	587	55
180°	578	578	578	578	578	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.5	1325.5	1325.5	1325.5	1325.5
2.5°	1329.7	1326.6	1316.1	1326.6	1325.5
5°	1323.4	1321.3	1310.8	1320.3	1319.2
7.5°	1314.0	1311.9	1300.4	1309.8	1308.7
10°	1300.4	1298.3	1286.7	1295.1	1294.1
12.5°	1283.6	1279.4	1268.9	1275.2	1275.2
15°	1261.6	1258.4	1246.9	1252.1	1252.1
17.5°	1238.5	1233.2	1221.7	1228.0	1222.7
20°	1208.1	1206.0	1192.3	1199.7	1194.4
22.5°	1177.7	1173.5	1160.9	1165.1	1161.9
25°	1145.1	1139.9	1126.3	1128.4	1125.2
27.5°	1107.4	1104.2	1090.6	1091.7	1088.5
30°	1070.7	1067.5	1051.8	1049.7	1046.6
32.5°	1030.8	1025.6	1012.0	1007.8	1001.5
35°	988.9	984.7	970.0	964.8	956.4
37.5°	945.9	940.7	927.0	919.7	914.4
40°	901.9	896.6	881.9	872.5	869.3
42.5°	854.7	850.5	835.8	827.4	822.2
45°	809.6	805.4	792.8	780.2	777.1
47.5°	760.3	761.3	745.6	733.0	725.7
50°	713.1	709.9	697.4	683.7	676.4
52.5°	664.9	662.8	649.1	637.6	629.2
55°	616.6	613.5	598.8	589.4	582.0
57.5°	565.2	564.2	551.6	539.0	535.9
60°	517.0	512.8	501.3	490.8	483.4
62.5°	466.7	463.5	454.1	442.5	437.3
65°	416.3	414.2	402.7	393.3	389.1
67.5°	367.0	362.8	354.5	346.1	344.0
70°	320.9	315.6	306.2	299.9	295.7
72.5°	270.6	267.4	262.2	254.8	250.6
75°	221.3	219.2	213.9	210.8	206.6
77.5°	175.1	174.1	170.9	168.8	165.7
80°	132.1	132.1	130.0	129.0	126.9
82.5°	94.4	92.3	92.3	90.2	90.2
85°	57.7	58.7	58.7	57.7	55.6
87.5°	28.3	28.3	27.3	27.3	25.2
90°	1.2	10.5	18.7	24.5	26.8
92.5°	17.5	95.6	465.3	124.2	86.3
95°	38.5	113.7	1033.3	468.8	274.1
97.5°	59.5	123.0	1116.1	846.7	600.6
100°	81.6	141.1	1053.1	1196.6	909.7
102.5°	106.1	161.5	942.3	1492.8	1254.9
105°	131.8	184.2	845.5	1664.8	1545.2
107.5°	156.3	208.2	773.2	1713.2	1720.2
110°	183.1	233.2	725.4	1667.2	1799.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.9	258.3	697.4	1570.9	1790.2
115°	235.6	284.0	678.7	1463.0	1721.3
117.5°	258.9	310.2	668.2	1365.0	1617.6
120°	282.2	335.3	661.2	1282.8	1517.3
122.5°	306.7	359.8	655.4	1217.0	1428.6
125°	326.5	382.5	650.8	1163.9	1356.3
127.5°	342.9	404.6	648.4	1118.4	1289.8
130°	358.0	425.6	646.1	1072.3	1237.4
132.5°	369.7	444.4	646.1	1022.8	1184.9
135°	382.5	460.0	646.1	975.6	1126.6
137.5°	398.8	474.6	647.3	926.0	1065.9
140°	412.8	486.9	648.4	880.5	1001.8
142.5°	429.2	498.6	649.6	841.4	942.3
145°	445.5	510.2	648.4	807.6	888.7
147.5°	463.0	520.8	646.1	778.4	840.8
150°	478.2	530.0	642.6	754.6	802.4
152.5°	494.5	539.4	637.9	734.2	772.0
155°	508.5	547.0	632.1	714.3	745.2
157.5°	521.3	554.6	626.3	695.6	720.7
160°	534.1	560.4	620.4	677.0	696.2
162.5°	544.6	566.2	613.4	660.1	674.1
165°	555.1	570.3	606.4	643.2	653.1
167.5°	562.1	572.6	599.4	627.4	633.3
170°	569.1	575.6	593.6	612.2	615.8
172.5°	573.8	576.7	586.6	600.0	599.4
175°	577.3	577.3	581.9	588.9	586.6
177.5°	579.6	577.3	578.4	581.9	578.4
180°	578.4	578.4	578.4	578.4	578.4

(END OF REPORT)