

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: P1028259

Luminaire Tested: S125DIP-B850D1270UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028259
REPORT IS A COMBINATION OF REPORTS P1002516 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-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

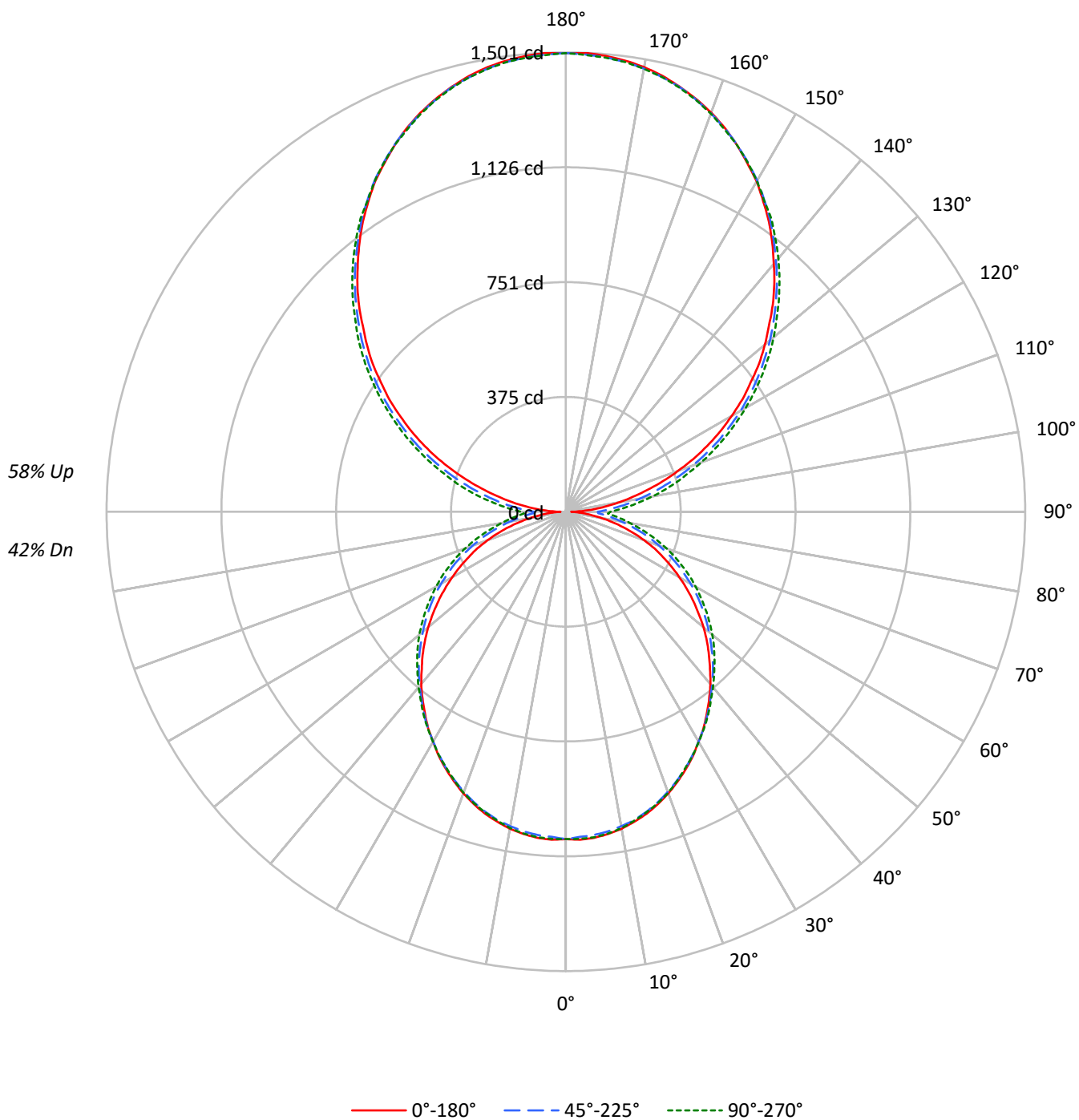
Lumens per Lamp: N/A
Luminaire Lumens: 7498.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	53	51	42	41	40
2	86	79	73	67	79	72	67	62	59	55	52	47	45	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	27	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.3
10°-20°	287.3	3.8
20°-30°	427.2	5.7
30°-40°	505.9	6.7
40°-50°	523.1	7.0
50°-60°	481.9	6.4
60°-70°	389.5	5.2
70°-80°	260.6	3.5
80°-90°	137.0	1.8
90°-100°	175.5	2.3
100°-110°	352.0	4.7
110°-120°	539.6	7.2
120°-130°	682.2	9.1
130°-140°	750.0	10.0
140°-150°	727.9	9.7
150°-160°	609.9	8.1
160°-170°	405.4	5.4
170°-180°	141.9	1.9
0°-30°	815.7	10.9
0°-40°	1321.6	17.6
0°-60°	2326.6	31.0
0°-90°	3113.7	41.5
90°-120°	1067.1	14.2
90°-150°	3227.1	43.0
90°-180°	4384.0	58.5
0°-180°	7498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	18	61	105	135	145	17
95°	89	119	166	198	207	90
105°	275	298	336	364	375	294
115°	509	521	551	568	573	504
125°	738	744	766	780	784	661
135°	956	962	971	984	985	737
145°	1157	1160	1164	1169	1170	723
155°	1323	1323	1324	1328	1323	609
165°	1438	1436	1437	1442	1434	406
175°	1495	1490	1490	1498	1489	142
180°	1499	1499	1499	1499	1499	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	18.0	60.8	104.7	134.6	145.4
92.5°	49.7	85.9	133.1	164.3	174.0
95°	89.4	119.0	166.3	197.6	207.2
97.5°	129.2	155.5	206.4	235.5	244.0
100°	174.8	196.9	245.5	278.0	286.7
102.5°	223.9	249.7	288.0	320.7	330.5
105°	275.3	297.9	336.4	364.3	375.2
107.5°	331.5	352.0	388.2	412.6	418.9
110°	389.8	408.3	441.2	464.6	470.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	450.5	462.3	495.3	515.4	520.3
115°	509.0	520.9	550.6	568.3	573.4
117.5°	568.5	575.0	603.5	622.5	625.2
120°	624.5	633.5	658.8	676.6	678.2
122.5°	684.1	686.3	712.9	728.5	731.3
125°	737.8	743.7	765.9	780.3	784.4
127.5°	796.2	798.7	817.6	832.2	836.1
130°	848.7	853.5	870.5	884.1	886.9
132.5°	900.1	910.6	920.0	933.5	934.2
135°	956.1	962.0	970.6	984.2	984.8
137.5°	1008.6	1014.5	1021.0	1034.8	1033.2
140°	1057.6	1063.5	1068.1	1081.9	1080.3
142.5°	1107.8	1111.5	1116.1	1126.7	1125.1
145°	1156.8	1160.4	1163.9	1169.1	1169.8
147.5°	1201.3	1204.8	1207.1	1212.7	1205.5
150°	1246.8	1245.6	1250.3	1250.3	1248.9
152.5°	1284.1	1286.4	1287.6	1291.1	1286.4
155°	1322.6	1322.6	1323.7	1328.4	1322.6
157.5°	1357.6	1355.2	1356.4	1361.0	1352.9
160°	1387.9	1384.4	1385.5	1390.2	1384.4
162.5°	1414.7	1412.4	1412.4	1418.2	1411.2
165°	1438.0	1435.7	1436.9	1441.5	1434.5
167.5°	1459.0	1454.4	1454.4	1461.3	1454.4
170°	1475.3	1470.7	1470.7	1477.7	1469.5
172.5°	1487.0	1482.3	1482.3	1489.3	1482.3
175°	1495.2	1490.5	1490.5	1497.5	1489.3
177.5°	1501.0	1496.3	1495.2	1502.2	1494.0
180°	1498.7	1498.7	1498.7	1498.7	1498.7

(END OF REPORT)