

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: P1028272

Luminaire Tested: S125DIP-B850D1270UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028272
REPORT IS A COMBINATION OF REPORTS P1002529 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

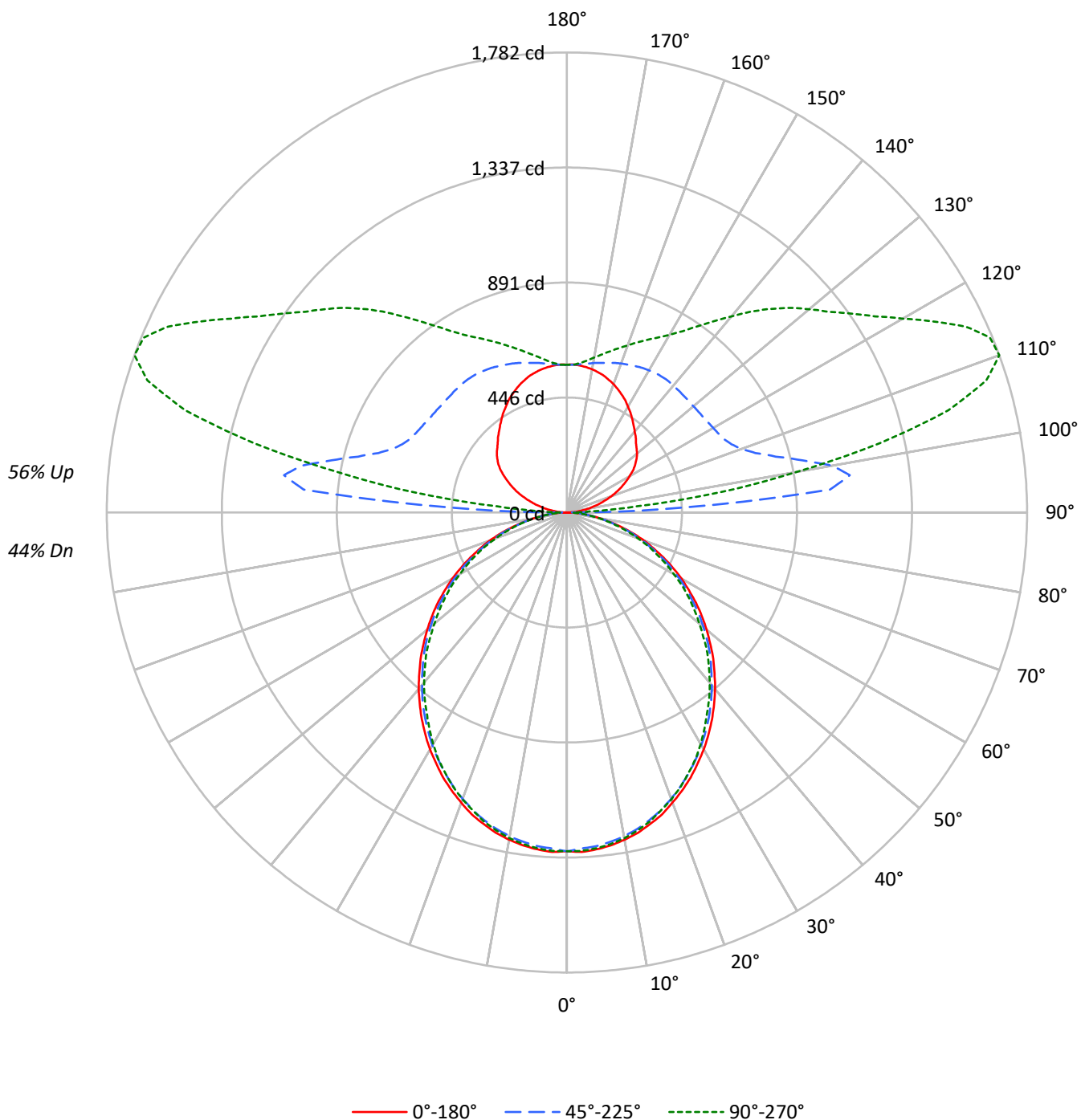
Lumens per Lamp: N/A
Luminaire Lumens: 7727.8 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	8407	8407	8407
5°	8407	8211	8227
10°	8338	8023	7998
15°	8228	7798	7728
20°	8080	7537	7418
25°	7921	7252	7087
30°	7729	6955	6738
35°	7525	6645	6347
40°	7313	6316	5999
45°	7084	5996	5629
50°	6833	5632	5198
55°	6583	5231	4802
60°	6285	4809	4341
65°	5930	4320	3865
70°	5567	3757	3315
75°	4959	3095	2681
80°	4227	2311	1972
85°	3265	1366	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.6
10°-20°	349.7	4.5
20°-30°	516.3	6.7
30°-40°	602.4	7.8
40°-50°	605.0	7.8
50°-60°	531.1	6.9
60°-70°	395.6	5.1
70°-80°	225.9	2.9
80°-90°	67.5	0.9
90°-100°	431.3	5.6
100°-110°	895.9	11.6
110°-120°	836.8	10.8
120°-130°	677.1	8.8
130°-140°	544.0	7.0
140°-150°	410.6	5.3
150°-160°	289.1	3.7
160°-170°	170.4	2.2
170°-180°	55.4	0.7
0°-30°	989.8	12.8
0°-40°	1592.2	20.6
0°-60°	2728.3	35.3
0°-90°	3417.3	44.2
90°-120°	2163.9	28.0
90°-150°	3795.6	49.1
90°-180°	4311.0	55.8
0°-180°	7727.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1310	1308	1298	1307	1306	124
15°	1249	1246	1234	1239	1239	352
25°	1134	1128	1115	1117	1114	522
35°	979	975	960	955	947	612
45°	801	797	785	772	769	617
55°	610	607	593	583	576	545
65°	412	410	399	389	385	409
75°	219	217	212	209	204	233
85°	57	58	58	57	55	63
90°	1	10	18	24	27	7
95°	38	113	1023	464	271	40
105°	130	182	837	1648	1530	137
115°	233	281	672	1449	1704	230
125°	323	379	644	1152	1343	287
135°	379	456	640	966	1115	294
145°	441	505	642	800	880	276
155°	503	542	626	707	738	232
165°	550	565	600	637	647	155
175°	572	572	576	583	581	54
180°	573	573	573	573	573	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1316.2	1313.1	1302.7	1313.1	1312.1
5°	1310.0	1307.9	1297.5	1306.9	1305.8
7.5°	1300.7	1298.6	1287.2	1296.5	1295.5
10°	1287.2	1285.1	1273.7	1282.0	1280.9
12.5°	1270.6	1266.4	1256.0	1262.2	1262.2
15°	1248.8	1245.6	1234.2	1239.4	1239.4
17.5°	1225.9	1220.7	1209.3	1215.5	1210.3
20°	1195.8	1193.7	1180.2	1187.5	1182.3
22.5°	1165.7	1161.6	1149.1	1153.3	1150.1
25°	1133.5	1128.3	1114.8	1116.9	1113.8
27.5°	1096.2	1093.0	1079.6	1080.6	1077.5
30°	1059.8	1056.7	1041.1	1039.1	1036.0
32.5°	1020.4	1015.2	1001.7	997.5	991.3
35°	978.9	974.7	960.2	955.0	946.7
37.5°	936.3	931.1	917.6	910.4	905.2
40°	892.7	887.5	873.0	863.6	860.5
42.5°	846.0	841.8	827.3	819.0	813.8
45°	801.4	797.2	784.8	772.3	769.2
47.5°	752.6	753.6	738.0	725.6	718.3
50°	705.9	702.7	690.3	676.8	669.5
52.5°	658.1	656.0	642.5	631.1	622.8
55°	610.4	607.2	592.7	583.4	576.1
57.5°	559.5	558.5	546.0	533.5	530.4
60°	511.7	507.6	496.2	485.8	478.5
62.5°	461.9	458.8	449.5	438.0	432.9
65°	412.1	410.0	398.6	389.3	385.1
67.5°	363.3	359.2	350.9	342.6	340.5
70°	317.6	312.4	303.1	296.9	292.7
72.5°	267.8	264.7	259.5	252.2	248.1
75°	219.0	216.9	211.8	208.6	204.5
77.5°	173.4	172.3	169.2	167.1	164.0
80°	130.8	130.8	128.7	127.7	125.6
82.5°	93.4	91.3	91.3	89.3	89.3
85°	57.1	58.1	58.1	57.1	55.0
87.5°	28.0	28.0	27.0	27.0	24.9
90°	1.2	10.4	18.5	24.2	26.6
92.5°	17.3	94.7	460.7	123.0	85.4
95°	38.1	112.6	1023.1	464.2	271.4
97.5°	58.9	121.8	1105.0	838.3	594.7
100°	80.8	139.7	1042.7	1184.8	900.7
102.5°	105.1	160.0	933.0	1478.0	1242.4
105°	130.5	182.4	837.1	1648.4	1530.0
107.5°	154.7	206.1	765.6	1696.2	1703.2
110°	181.3	230.9	718.2	1650.6	1781.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.8	255.8	690.5	1555.4	1772.4
115°	233.2	281.2	672.0	1448.6	1704.3
117.5°	256.3	307.2	661.6	1351.6	1601.6
120°	279.4	332.0	654.7	1270.2	1502.2
122.5°	303.7	356.2	648.9	1205.0	1414.5
125°	323.3	378.7	644.3	1152.4	1342.9
127.5°	339.5	400.7	642.0	1107.4	1277.1
130°	354.5	421.4	639.7	1061.8	1225.1
132.5°	366.0	439.9	639.7	1012.7	1173.2
135°	378.7	455.5	639.7	965.9	1115.4
137.5°	394.9	470.0	640.9	916.8	1055.4
140°	408.8	482.1	642.0	871.8	991.9
142.5°	424.9	493.6	643.2	833.1	933.0
145°	441.1	505.2	642.0	799.6	879.9
147.5°	458.4	515.6	639.7	770.8	832.5
150°	473.4	524.8	636.2	747.1	794.4
152.5°	489.6	534.0	631.6	726.9	764.4
155°	503.4	541.6	625.8	707.2	737.8
157.5°	516.1	549.0	620.1	688.8	713.6
160°	528.8	554.8	614.3	670.3	689.3
162.5°	539.2	560.6	607.4	653.6	667.4
165°	549.6	564.7	600.4	636.8	646.6
167.5°	556.6	567.0	593.5	621.2	627.0
170°	563.5	569.8	587.7	606.2	609.7
172.5°	568.1	571.0	580.8	594.1	593.5
175°	571.6	571.6	576.2	583.1	580.8
177.5°	573.9	571.6	572.7	576.2	572.7
180°	572.7	572.7	572.7	572.7	572.7

(END OF REPORT)