

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: P1028360

Luminaire Tested: S125DIP-B850D610UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028360
REPORT IS A COMBINATION OF REPORTS P1002647 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

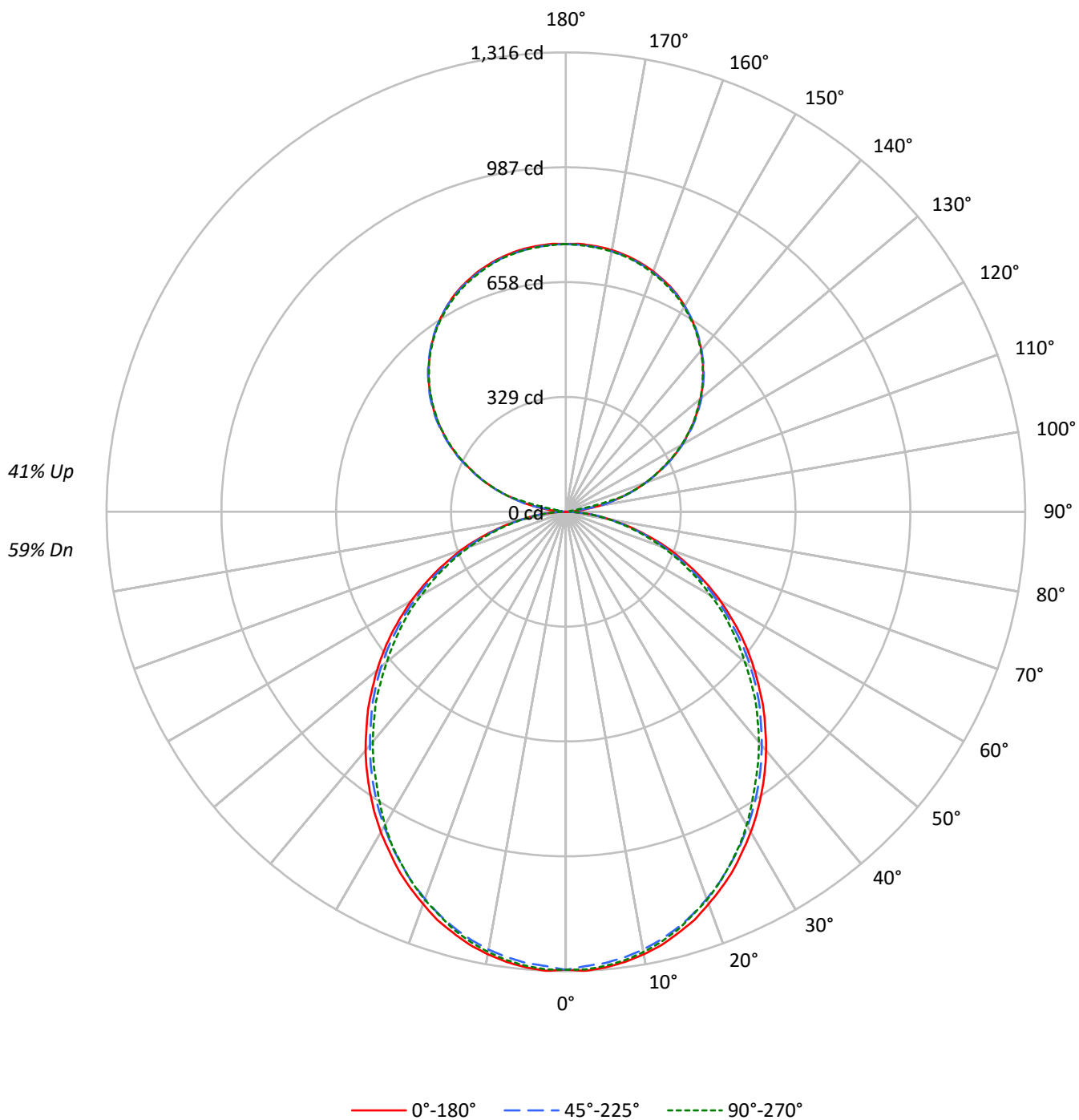
Lumens per Lamp: N/A
Luminaire Lumens: 5771.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
Input Voltage (V):
Input Current (A_{in}): 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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	54
2	91	83	77	72	84	78	72	68	68	64	60	59	56	53	50	48	46
3	83	73	66	60	77	69	62	57	60	55	50	52	48	45	44	41	39
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	40	36	34
5	70	58	49	43	65	54	47	41	48	42	37	41	37	33	36	32	29
6	64	52	44	38	60	49	41	36	43	37	32	38	33	29	32	29	26
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19
10	48	36	28	24	45	34	27	23	30	25	21	27	22	19	23	20	17

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	2.1
10°-20°	349.7	6.1
20°-30°	516.3	8.9
30°-40°	602.4	10.4
40°-50°	605.0	10.5
50°-60°	531.1	9.2
60°-70°	395.6	6.9
70°-80°	225.9	3.9
80°-90°	66.3	1.1
90°-100°	26.0	0.5
100°-110°	173.1	3.0
110°-120°	311.7	5.4
120°-130°	400.1	6.9
130°-140°	430.3	7.5
140°-150°	403.9	7.0
150°-160°	326.7	5.7
160°-170°	211.3	3.7
170°-180°	72.9	1.3
0°-30°	989.8	17.1
0°-40°	1592.2	27.6
0°-60°	2728.3	47.3
0°-90°	3416.1	59.2
90°-120°	510.8	8.8
90°-150°	1745.0	30.2
90°-180°	2356.0	40.8
0°-180°	5771.9	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	5	9	12	14	5
95°	32	31	9	12	12	40
105°	167	169	169	169	169	177
115°	314	317	317	315	312	311
125°	446	450	450	448	446	399
135°	557	560	559	558	554	429
145°	645	646	646	647	644	404
155°	711	707	708	710	706	327
165°	750	746	747	750	746	212
175°	767	764	764	769	764	73
180°	767	767	767	767	767	

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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°	0.6	5.1	9.1	11.9	13.6
92.5°	10.8	5.7	9.1	11.9	12.5
95°	32.4	30.7	9.1	11.9	11.9
97.5°	60.8	64.2	10.2	11.4	11.9
100°	94.9	96.6	98.9	14.2	11.9
102.5°	129.6	131.9	133.0	134.2	86.4
105°	167.1	169.4	169.4	169.4	168.9
107.5°	205.8	205.8	206.9	207.5	205.2
110°	243.3	243.3	244.5	242.8	243.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.6	280.3	280.8	278.6	277.4
115°	313.8	316.7	317.2	315.0	311.5
117.5°	350.8	350.8	353.1	349.6	348.5
120°	384.9	384.3	386.0	384.9	382.0
122.5°	415.0	417.9	418.4	417.3	413.9
125°	446.3	450.3	450.3	448.0	446.3
127.5°	476.4	479.3	478.7	477.6	473.0
130°	503.7	506.6	507.1	505.4	502.6
132.5°	531.0	534.4	532.7	532.7	529.9
135°	556.6	560.0	558.9	557.7	554.3
137.5°	580.5	583.9	582.7	582.7	579.9
140°	603.8	604.9	604.3	605.5	602.1
142.5°	624.8	625.4	626.5	626.5	623.1
145°	645.3	646.4	646.4	647.0	643.6
147.5°	663.5	663.5	664.0	664.6	660.6
150°	680.5	679.4	680.5	681.7	677.1
152.5°	697.0	694.2	695.3	696.4	692.5
155°	710.7	707.2	708.4	710.1	705.5
157.5°	721.5	719.7	719.7	721.5	716.9
160°	732.8	729.4	730.0	732.3	727.7
162.5°	741.9	738.5	739.1	742.5	737.4
165°	749.9	746.5	747.0	750.4	745.9
167.5°	756.1	752.7	753.3	757.3	752.2
170°	761.2	757.3	757.8	762.4	757.3
172.5°	764.7	760.7	761.8	765.8	760.7
175°	766.9	763.5	764.1	768.6	763.5
177.5°	768.6	765.2	765.8	769.8	765.2
180°	766.9	766.9	766.9	766.9	766.9

(END OF REPORT)