

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: P1028413

Luminaire Tested: S125DIP-B850D850UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028413
REPORT IS A COMBINATION OF REPORTS P1002718 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D850UB50-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

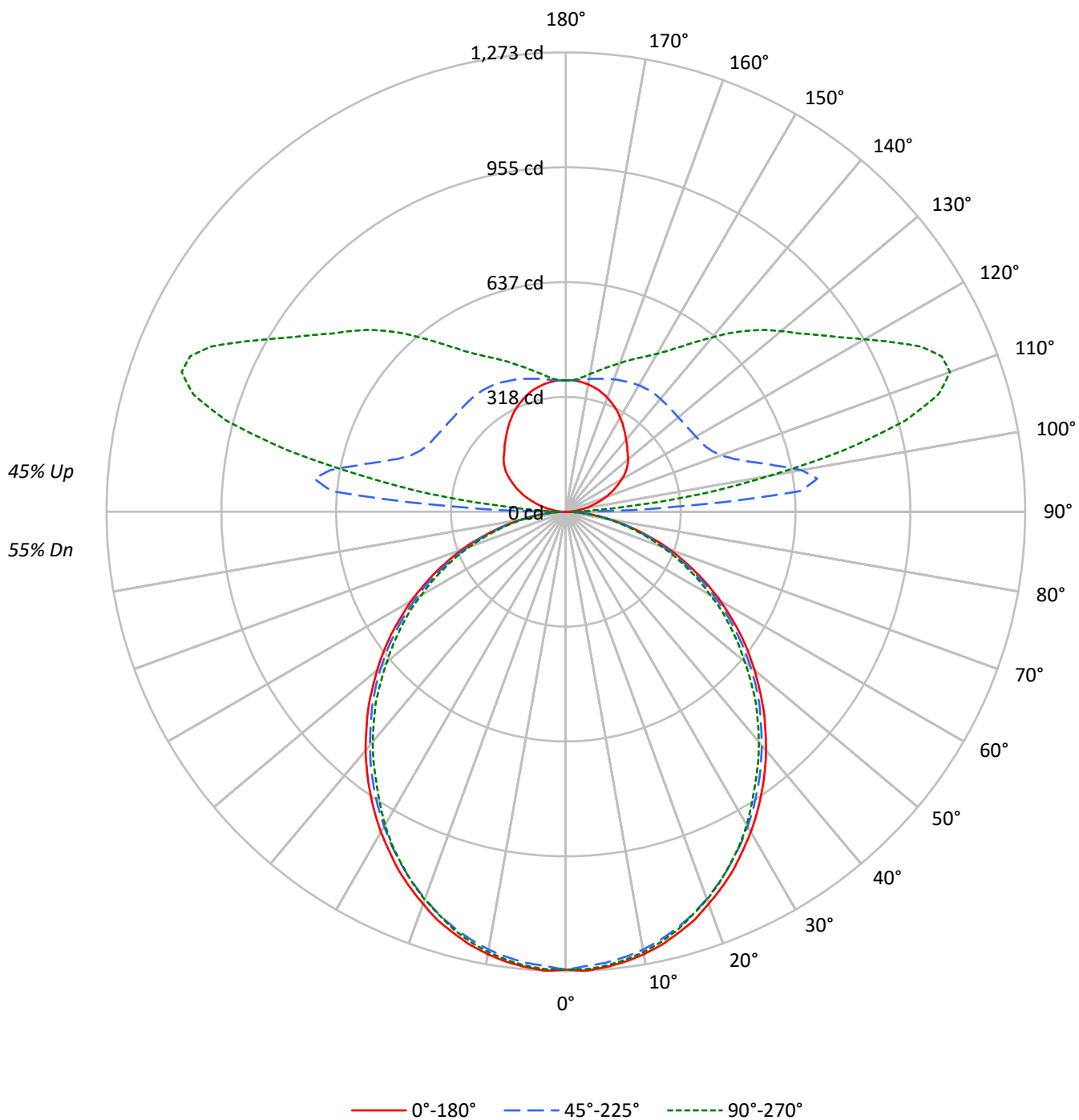
Lumens per Lamp: N/A
Luminaire Lumens: 6045.6 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	99	94	90	87	92	88	84	81	75	73	70	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	72	65	59	76	67	61	56	58	53	49	50	46	43	42	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31
5	69	57	49	43	64	53	46	41	46	40	36	40	35	32	33	30	27
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8131	8131	8131
5°	8131	7942	7957
10°	8064	7760	7735
15°	7958	7542	7475
20°	7815	7289	7175
25°	7662	7014	6855
30°	7476	6727	6517
35°	7278	6427	6138
40°	7073	6109	5802
45°	6852	5799	5445
50°	6608	5448	5028
55°	6367	5060	4645
60°	6080	4651	4199
65°	5735	4178	3738
70°	5385	3635	3206
75°	4796	2992	2593
80°	4088	2235	1907
85°	3156	1321	1051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.0
10°-20°	338.2	5.6
20°-30°	499.4	8.3
30°-40°	582.6	9.6
40°-50°	585.2	9.7
50°-60°	513.6	8.5
60°-70°	382.6	6.3
70°-80°	218.5	3.6
80°-90°	64.5	1.1
90°-100°	274.3	4.5
100°-110°	569.7	9.4
110°-120°	532.1	8.8
120°-130°	430.6	7.1
130°-140°	345.9	5.7
140°-150°	261.1	4.3
150°-160°	183.9	3.0
160°-170°	108.4	1.8
170°-180°	35.2	0.6
0°-30°	957.4	15.8
0°-40°	1540.0	25.5
0°-60°	2638.8	43.6
0°-90°	3304.4	54.7
90°-120°	1376.1	22.8
90°-150°	2413.7	39.9
90°-180°	2741.0	45.3
0°-180°	6045.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1267	1265	1255	1264	1263	120
15°	1208	1205	1194	1199	1199	341
25°	1096	1091	1078	1080	1077	504
35°	947	943	929	924	916	592
45°	775	771	759	747	744	597
55°	590	587	573	564	557	527
65°	399	397	386	376	372	395
75°	212	210	205	202	198	226
85°	55	56	56	55	53	60
90°	1	7	12	15	17	5
95°	24	72	651	295	173	25
105°	83	116	532	1048	973	87
115°	148	179	427	921	1084	146
125°	206	241	410	733	854	183
135°	241	290	407	614	709	187
145°	280	321	408	508	560	176
155°	320	344	398	450	469	147
165°	350	359	382	405	411	98
175°	364	364	366	371	369	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.0	1269.0	1269.0	1269.0	1269.0
2.5°	1273.1	1270.0	1260.0	1270.0	1269.0
5°	1267.0	1265.0	1255.0	1264.0	1263.0
7.5°	1258.0	1256.0	1244.9	1254.0	1253.0
10°	1244.9	1242.9	1231.9	1239.9	1238.9
12.5°	1228.9	1224.9	1214.8	1220.8	1220.8
15°	1207.8	1204.8	1193.7	1198.8	1198.8
17.5°	1185.7	1180.7	1169.6	1175.7	1170.6
20°	1156.6	1154.6	1141.5	1148.6	1143.5
22.5°	1127.5	1123.5	1111.4	1115.4	1112.4
25°	1096.4	1091.3	1078.3	1080.3	1077.3
27.5°	1060.2	1057.2	1044.1	1045.2	1042.1
30°	1025.1	1022.1	1007.0	1005.0	1002.0
32.5°	986.9	981.9	968.8	964.8	958.8
35°	946.8	942.7	928.7	923.7	915.6
37.5°	905.6	900.6	887.5	880.5	875.5
40°	863.4	858.4	844.4	835.3	832.3
42.5°	818.2	814.2	800.2	792.1	787.1
45°	775.1	771.1	759.0	747.0	744.0
47.5°	727.9	728.9	713.8	701.8	694.8
50°	682.7	679.7	667.7	654.6	647.6
52.5°	636.5	634.5	621.5	610.4	602.4
55°	590.3	587.3	573.3	564.2	557.2
57.5°	541.1	540.1	528.1	516.0	513.0
60°	495.0	490.9	479.9	469.9	462.8
62.5°	446.8	443.8	434.7	423.7	418.7
65°	398.6	396.6	385.5	376.5	372.5
67.5°	351.4	347.4	339.3	331.3	329.3
70°	307.2	302.2	293.2	287.1	283.1
72.5°	259.0	256.0	251.0	244.0	240.0
75°	211.8	209.8	204.8	201.8	197.8
77.5°	167.7	166.7	163.6	161.6	158.6
80°	126.5	126.5	124.5	123.5	121.5
82.5°	90.4	88.4	88.4	86.3	86.3
85°	55.2	56.2	56.2	55.2	53.2
87.5°	27.1	27.1	26.1	26.1	24.1
90°	0.7	6.6	11.7	15.4	16.9
92.5°	11.0	60.2	293.0	78.2	54.3
95°	24.2	71.6	650.6	295.2	172.6
97.5°	37.4	77.5	702.7	533.1	378.2
100°	51.4	88.8	663.1	753.4	572.7
102.5°	66.8	101.7	593.3	939.9	790.1
105°	83.0	116.0	532.4	1048.2	972.9
107.5°	98.4	131.0	486.8	1078.6	1083.1
110°	115.3	146.9	456.7	1049.7	1133.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.2	162.6	439.1	989.1	1127.1
115°	148.3	178.8	427.4	921.2	1083.8
117.5°	163.0	195.3	420.7	859.5	1018.5
120°	177.7	211.1	416.3	807.7	955.3
122.5°	193.1	226.5	412.7	766.2	899.5
125°	205.6	240.8	409.7	732.8	854.0
127.5°	215.9	254.8	408.3	704.2	812.1
130°	225.4	268.0	406.8	675.2	779.1
132.5°	232.8	279.8	406.8	644.0	746.0
135°	240.8	289.7	406.8	614.2	709.3
137.5°	251.1	298.8	407.5	583.0	671.1
140°	259.9	306.6	408.3	554.4	630.8
142.5°	270.2	313.9	409.0	529.8	593.3
145°	280.5	321.2	408.3	508.5	559.5
147.5°	291.5	327.8	406.8	490.1	529.4
150°	301.1	333.8	404.6	475.1	505.2
152.5°	311.3	339.6	401.7	462.2	486.1
155°	320.1	344.4	398.0	449.8	469.2
157.5°	328.2	349.2	394.3	438.0	453.8
160°	336.3	352.8	390.6	426.2	438.4
162.5°	342.9	356.5	386.2	415.6	424.4
165°	349.5	359.1	381.8	405.0	411.2
167.5°	353.9	360.6	377.4	395.0	398.7
170°	358.3	362.4	373.8	385.5	387.7
172.5°	361.3	363.1	369.3	377.8	377.4
175°	363.5	363.5	366.4	370.8	369.3
177.5°	364.9	363.5	364.2	366.4	364.2
180°	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)