

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: P1028281

Luminaire Tested: S125DIP-B850D1270UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028281
REPORT IS A COMBINATION OF REPORTS P1002538 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB50-4F0-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

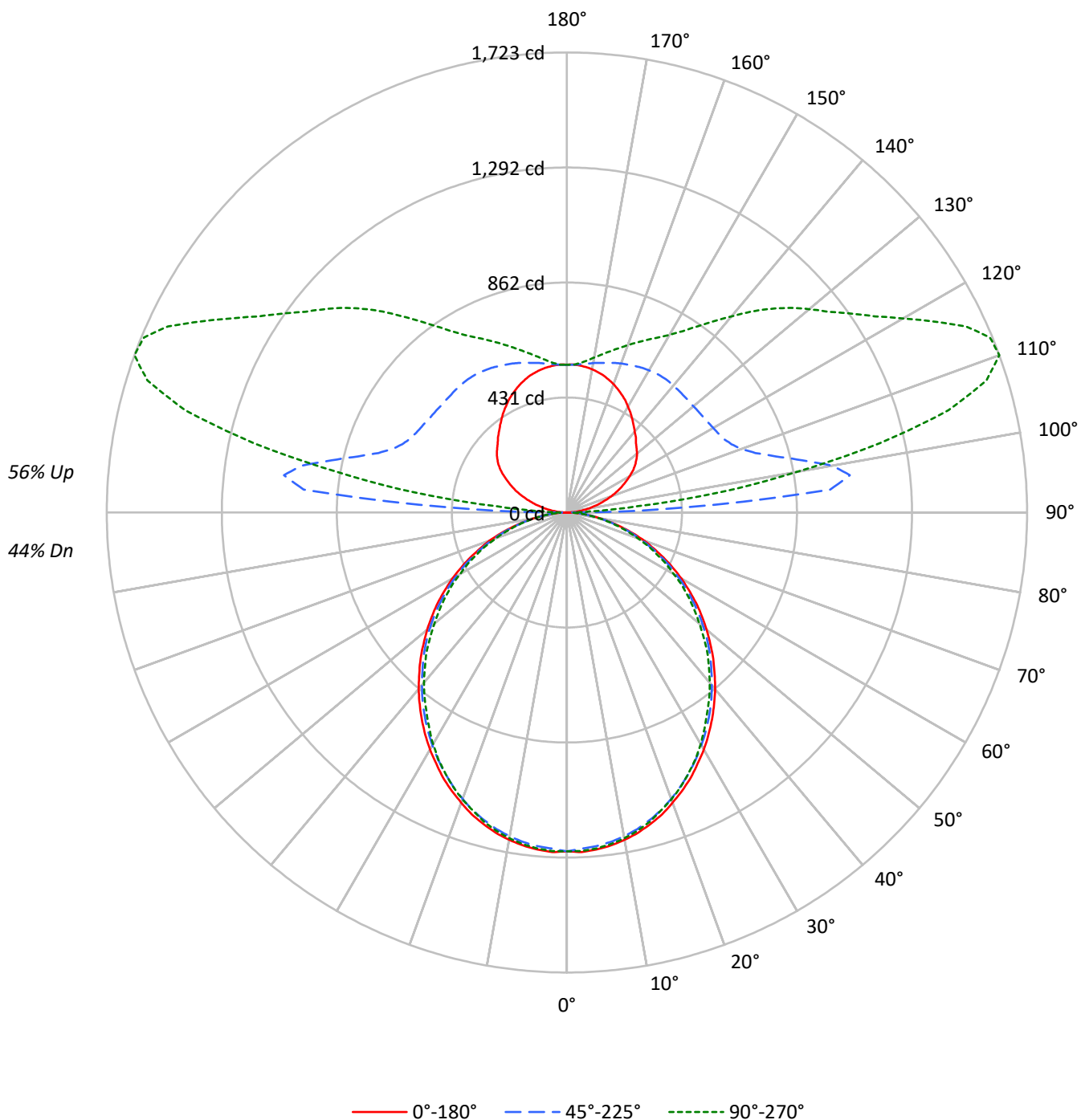
Lumens per Lamp: N/A
Luminaire Lumens: 7473.5 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	1.6
10°-20°	338.2	4.5
20°-30°	499.4	6.7
30°-40°	582.6	7.8
40°-50°	585.2	7.8
50°-60°	513.6	6.9
60°-70°	382.6	5.1
70°-80°	218.5	2.9
80°-90°	65.3	0.9
90°-100°	417.0	5.6
100°-110°	866.3	11.6
110°-120°	809.1	10.8
120°-130°	654.7	8.8
130°-140°	526.1	7.0
140°-150°	397.1	5.3
150°-160°	279.6	3.7
160°-170°	164.8	2.2
170°-180°	53.6	0.7
0°-30°	957.4	12.8
0°-40°	1540.0	20.6
0°-60°	2638.8	35.3
0°-90°	3305.2	44.2
90°-120°	2092.5	28.0
90°-150°	3670.4	49.1
90°-180°	4168.0	55.8
0°-180°	7473.5	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	10	18	24	26	6
95°	37	109	989	449	262	38
105°	126	176	810	1594	1480	133
115°	226	272	650	1401	1648	222
125°	313	366	623	1114	1299	278
135°	366	440	619	934	1079	284
145°	426	488	621	773	851	267
155°	487	524	605	684	714	224
165°	532	546	581	616	625	150
175°	553	553	557	564	562	53
180°	554	554	554	554	554	

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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°	1.1	10.0	17.9	23.5	25.7
92.5°	16.7	91.6	445.5	118.9	82.6
95°	36.8	108.8	989.3	448.9	262.4
97.5°	56.9	117.8	1068.6	810.6	575.0
100°	78.2	135.2	1008.3	1145.6	870.9
102.5°	101.6	154.6	902.2	1429.2	1201.5
105°	126.2	176.4	809.5	1593.9	1479.5
107.5°	149.6	199.4	740.3	1640.2	1647.0
110°	175.3	223.3	694.5	1596.2	1722.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	201.0	247.4	667.7	1504.0	1714.0
115°	225.6	271.8	649.9	1400.8	1648.1
117.5°	247.9	297.0	639.8	1307.0	1548.7
120°	270.2	321.0	633.1	1228.2	1452.7
122.5°	293.7	344.4	627.5	1165.2	1367.8
125°	312.6	366.2	623.1	1114.4	1298.6
127.5°	328.3	387.4	620.8	1070.8	1234.9
130°	342.8	407.6	618.6	1026.7	1184.7
132.5°	354.0	425.4	618.6	979.2	1134.5
135°	366.2	440.5	618.6	934.0	1078.6
137.5°	381.9	454.4	619.7	886.6	1020.6
140°	395.3	466.2	620.8	843.0	959.2
142.5°	410.9	477.4	621.9	805.7	902.2
145°	426.5	488.5	620.8	773.2	850.8
147.5°	443.3	498.6	618.6	745.3	805.1
150°	457.8	507.5	615.2	722.4	768.2
152.5°	473.4	516.4	610.8	702.9	739.2
155°	486.8	523.7	605.2	684.0	713.5
157.5°	499.1	531.0	599.6	666.0	690.1
160°	511.4	536.5	594.0	648.2	666.6
162.5°	521.4	542.1	587.3	632.0	645.4
165°	531.5	546.0	580.6	615.8	625.3
167.5°	538.2	548.2	573.9	600.8	606.3
170°	544.9	551.0	568.3	586.2	589.6
172.5°	549.4	552.2	561.6	574.4	573.9
175°	552.7	552.7	557.2	563.9	561.6
177.5°	554.9	552.7	553.8	557.2	553.8
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)