

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: P1028349

Luminaire Tested: S125DIP-B850D610UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028349
REPORT IS A COMBINATION OF REPORTS P1002636 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB35-4F0-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

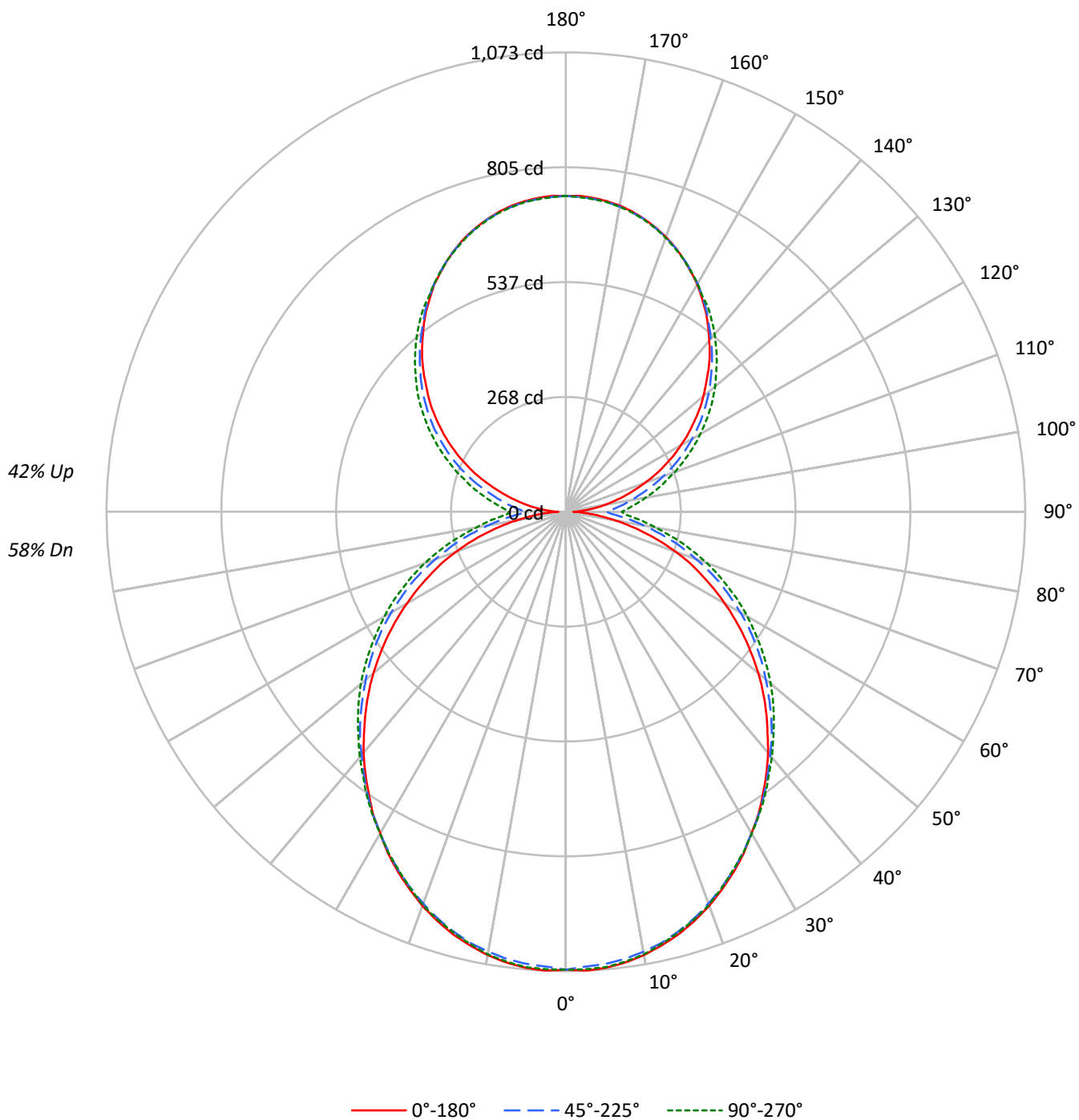
Lumens per Lamp: N/A
Luminaire Lumens: 5373.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	99	94	90	86	92	88	84	81	76	73	70	65	63	61	55	53	52
2	90	82	75	69	83	76	70	65	66	61	58	56	53	50	48	45	43
3	81	71	64	57	75	67	60	54	58	52	48	50	45	42	42	39	36
4	74	63	55	48	69	59	52	46	51	45	41	44	39	36	37	34	31
5	68	56	48	41	63	53	45	39	46	40	35	39	35	31	34	30	27
6	63	50	42	36	58	47	40	34	41	35	30	36	31	27	30	27	24
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	30	25	21	25	22	19
9	50	38	30	25	47	35	28	24	31	25	21	27	22	19	23	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15

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	1.9
10°-20°	287.3	5.3
20°-30°	427.2	8.0
30°-40°	505.9	9.4
40°-50°	523.1	9.7
50°-60°	481.9	9.0
60°-70°	389.5	7.2
70°-80°	260.6	4.9
80°-90°	135.9	2.5
90°-100°	124.9	2.3
100°-110°	201.7	3.8
110°-120°	284.6	5.3
120°-130°	346.6	6.5
130°-140°	373.9	7.0
140°-150°	359.2	6.7
150°-160°	300.2	5.6
160°-170°	199.5	3.7
170°-180°	69.8	1.3
0°-30°	815.7	15.2
0°-40°	1321.6	24.6
0°-60°	2326.6	43.3
0°-90°	3112.6	57.9
90°-120°	611.2	11.4
90°-150°	1690.9	31.5
90°-180°	2260.0	42.1
0°-180°	5373.0	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°	17	56	95	122	131	14
95°	51	79	121	148	156	50
105°	140	160	195	219	228	150
115°	254	263	292	310	316	251
125°	365	368	389	405	410	327
135°	472	474	482	496	499	364
145°	570	571	573	578	581	356
155°	651	651	652	654	651	300
165°	708	707	707	710	706	200
175°	736	734	734	737	733	70
180°	738	738	738	738	738	

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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°	17.4	55.5	95.2	122.2	131.2
92.5°	31.9	65.2	107.1	134.1	142.6
95°	50.9	79.4	120.7	147.8	156.3
97.5°	70.0	95.7	138.3	163.9	171.7
100°	91.9	114.0	154.9	182.1	189.5
102.5°	115.6	138.3	173.7	200.4	208.5
105°	140.3	160.0	194.9	219.3	228.4
107.5°	167.4	185.0	218.3	240.9	247.2
110°	195.6	211.1	242.2	263.8	270.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.5	236.1	266.7	286.2	292.3
115°	253.7	263.3	291.8	310.1	315.8
117.5°	282.5	288.4	315.7	334.1	339.2
120°	310.0	316.1	340.8	358.6	362.6
122.5°	338.9	340.5	365.3	381.5	386.1
125°	365.3	367.6	389.2	404.9	409.5
127.5°	393.5	394.2	412.6	427.7	432.9
130°	419.3	421.2	437.0	451.2	455.2
132.5°	444.1	449.3	459.2	473.4	475.8
135°	471.7	474.0	482.0	495.6	498.6
137.5°	497.5	499.9	505.2	518.4	519.7
140°	521.1	524.0	526.8	539.5	540.8
142.5°	545.8	547.1	549.4	559.4	560.7
145°	569.9	571.2	572.9	578.1	580.6
147.5°	591.3	593.0	594.2	598.0	595.5
150°	613.7	613.1	615.4	615.4	615.3
152.5°	632.1	633.2	633.8	635.5	633.2
155°	651.0	651.0	651.6	653.9	651.0
157.5°	668.2	667.1	667.7	670.0	665.9
160°	683.2	681.4	682.0	684.3	681.4
162.5°	696.4	695.2	695.2	698.1	694.6
165°	707.8	706.7	707.3	709.6	706.1
167.5°	718.2	715.9	715.9	719.3	715.9
170°	726.2	723.9	723.9	727.4	723.3
172.5°	732.0	729.7	729.7	733.1	729.7
175°	736.0	733.7	733.7	737.1	733.1
177.5°	738.8	736.5	736.0	739.4	735.4
180°	737.7	737.7	737.7	737.7	737.7

(END OF REPORT)