

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: P1028321

Luminaire Tested: S125DIP-B850D375UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028321
REPORT IS A COMBINATION OF REPORTS P1002593 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

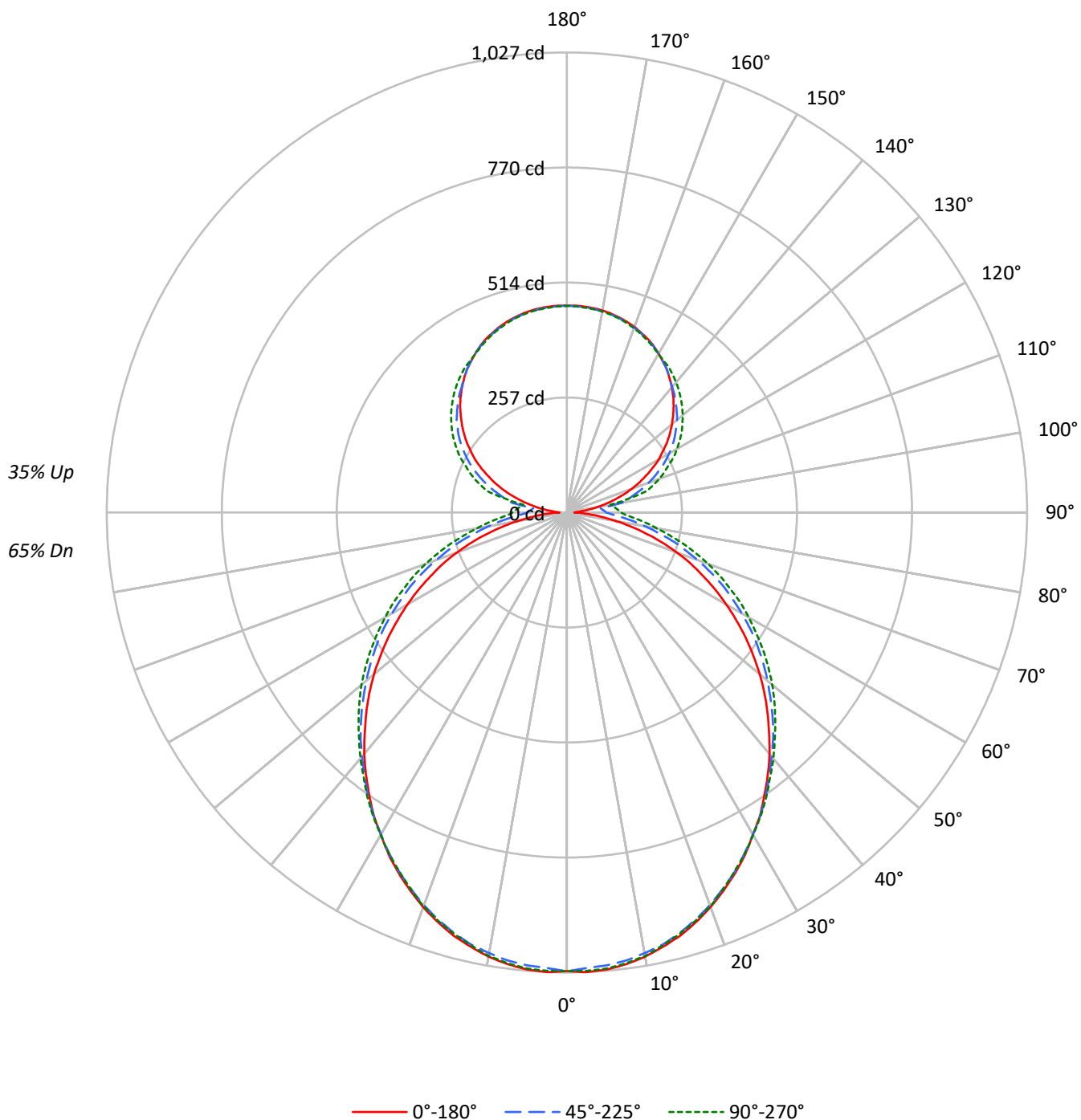
Lumens per Lamp: N/A
Luminaire Lumens: 4590.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	91	87	94	90	86	82	79	76	73	69	67	65	60	59	57
2	91	83	76	70	85	78	72	67	69	64	60	60	57	54	52	50	47
3	83	72	65	58	77	68	61	55	60	55	50	53	49	45	46	43	40
4	76	64	56	49	71	60	53	47	53	47	42	47	42	38	41	37	34
5	69	57	48	42	65	54	46	40	48	41	37	42	37	33	37	33	30
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	33	29	26
7	59	46	38	32	55	44	36	31	39	33	28	35	29	26	31	26	23
8	55	42	34	28	51	40	32	27	36	29	25	32	27	23	28	24	21
9	51	38	31	25	48	36	29	24	33	27	22	29	24	20	26	22	19
10	48	35	28	23	45	33	27	22	30	24	20	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	2.1
10°-20°	275.1	6.0
20°-30°	409.0	8.9
30°-40°	484.4	10.6
40°-50°	500.8	10.9
50°-60°	461.3	10.1
60°-70°	372.9	8.1
70°-80°	249.5	5.4
80°-90°	129.7	2.8
90°-100°	88.3	1.9
100°-110°	157.7	3.4
110°-120°	223.4	4.9
120°-130°	261.0	5.7
130°-140°	267.8	5.8
140°-150°	244.7	5.3
150°-160°	196.5	4.3
160°-170°	127.1	2.8
170°-180°	43.8	1.0
0°-30°	781.0	17.0
0°-40°	1265.4	27.6
0°-60°	2227.5	48.5
0°-90°	2979.7	64.9
90°-120°	469.4	10.2
90°-150°	1242.8	27.1
90°-180°	1610.0	35.1
0°-180°	4590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	16	51	88	113	121	12
95°	33	58	79	103	110	34
105°	110	127	157	177	184	116
115°	195	204	230	247	251	193
125°	272	274	294	309	313	243
135°	337	338	344	357	360	260
145°	389	389	389	394	396	243
155°	428	426	426	427	424	197
165°	451	449	449	452	449	127
175°	461	459	460	462	459	44
180°	461	461	461	461	461	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	16.4	51.3	87.8	112.6	120.6
92.5°	20.6	46.6	83.8	107.6	114.9
95°	32.6	57.7	78.8	102.6	109.6
97.5°	48.6	74.7	75.5	97.1	104.6
100°	68.1	90.2	123.7	93.9	98.6
102.5°	88.0	108.5	140.2	161.0	138.3
105°	109.6	127.0	157.1	177.2	183.9
107.5°	131.8	145.9	175.7	196.1	200.8
110°	153.4	165.5	194.3	212.3	219.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.6	184.7	212.2	228.8	235.2
115°	194.8	203.6	230.1	246.7	250.6
117.5°	216.0	221.0	247.5	262.5	268.9
120°	236.6	239.2	263.3	279.8	284.0
122.5°	253.7	256.4	278.8	294.2	298.2
125°	272.5	273.9	294.0	308.7	312.7
127.5°	289.6	290.3	307.1	321.4	324.8
130°	306.0	306.7	321.2	334.2	337.5
132.5°	321.5	323.5	332.5	346.6	348.9
135°	336.8	337.9	344.2	356.6	359.6
137.5°	351.2	352.3	355.6	367.7	370.0
140°	364.2	364.9	365.6	377.4	379.3
142.5°	376.9	376.2	376.9	385.9	388.0
145°	389.2	388.9	388.9	394.2	396.2
147.5°	399.1	399.1	399.5	401.8	401.4
150°	409.4	408.7	409.4	410.1	408.4
152.5°	419.3	417.6	418.3	419.0	416.6
155°	427.5	425.5	426.2	427.2	424.5
157.5°	434.0	433.0	433.0	434.0	431.3
160°	440.9	438.8	439.2	440.5	437.8
162.5°	446.3	444.3	444.6	446.7	443.6
165°	451.1	449.1	449.4	451.5	448.7
167.5°	454.9	452.8	453.2	455.6	452.5
170°	458.0	455.6	455.9	458.7	455.6
172.5°	460.0	457.6	458.3	460.7	457.6
175°	461.4	459.3	459.7	462.4	459.3
177.5°	462.4	460.4	460.7	463.1	460.4
180°	461.4	461.4	461.4	461.4	461.4

(END OF REPORT)