

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: P1028411

Luminaire Tested: S125DIP-B850D850UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028411
REPORT IS A COMBINATION OF REPORTS P1002715 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

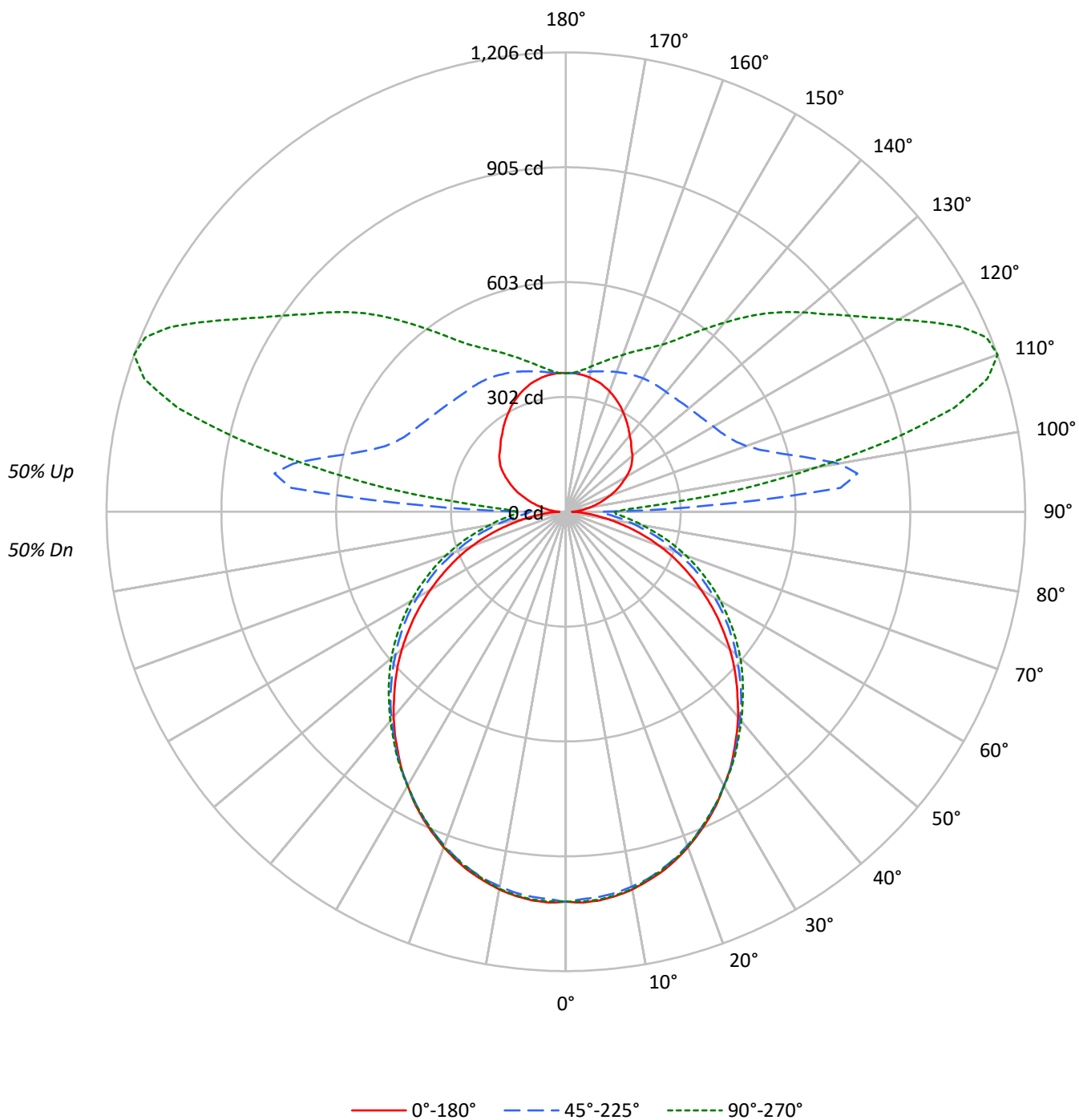
Lumens per Lamp: N/A
Luminaire Lumens: 5914.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56
1	97	92	88	85	89	85	82	79	72	69	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	53	41	34	29	36	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14

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	1.6
10°-20°	275.1	4.7
20°-30°	409.0	6.9
30°-40°	484.4	8.2
40°-50°	500.8	8.5
50°-60°	461.3	7.8
60°-70°	372.9	6.3
70°-80°	249.5	4.2
80°-90°	130.4	2.2
90°-100°	346.9	5.9
100°-110°	623.3	10.5
110°-120°	568.0	9.6
120°-130°	450.9	7.6
130°-140°	354.8	6.0
140°-150°	262.9	4.4
150°-160°	183.9	3.1
160°-170°	108.4	1.8
170°-180°	35.2	0.6
0°-30°	781.0	13.2
0°-40°	1265.4	21.4
0°-60°	2227.5	37.7
0°-90°	2980.4	50.4
90°-120°	1538.1	26.0
90°-150°	2606.7	44.1
90°-180°	2934.0	49.6
0°-180°	5914.6	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°	17	55	94	121	129	13
95°	37	111	724	390	275	35
105°	92	141	588	1124	1055	97
115°	154	192	467	978	1147	152
125°	210	244	433	772	898	186
135°	243	291	415	635	735	188
145°	282	321	408	514	568	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°	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°	16.8	54.8	94.0	120.8	129.3
92.5°	25.1	103.4	371.3	178.6	161.7
95°	37.3	110.8	723.9	390.5	275.0
97.5°	49.4	113.6	772.0	623.4	475.6
100°	62.4	121.0	727.3	838.7	664.1
102.5°	76.8	130.8	653.5	1020.2	876.4
105°	92.0	141.1	587.6	1123.5	1055.2
107.5°	106.4	153.2	538.0	1150.0	1160.4
110°	122.3	166.0	503.9	1116.0	1206.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.2	178.8	482.3	1050.3	1195.4
115°	154.3	191.9	466.6	978.4	1147.0
117.5°	168.0	205.3	455.8	911.7	1077.7
120°	182.7	219.1	447.4	855.9	1009.5
122.5°	197.1	231.5	439.8	809.4	948.7
125°	209.6	243.8	432.8	772.0	898.2
127.5°	218.9	256.8	427.4	738.3	852.3
130°	228.4	270.0	422.9	705.2	814.2
132.5°	234.8	281.8	418.8	670.1	776.1
135°	242.8	290.7	414.8	635.4	735.4
137.5°	253.1	299.8	412.5	600.2	692.2
140°	260.9	307.6	410.3	567.5	647.9
142.5°	271.2	313.9	409.0	538.8	606.4
145°	281.5	321.2	408.3	513.5	568.5
147.5°	291.5	327.8	406.8	492.1	533.4
150°	301.1	333.8	404.6	475.1	506.2
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)