

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: P1028367

Luminaire Tested: S125DIP-B850D610UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028367
REPORT IS A COMBINATION OF REPORTS P1002654 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

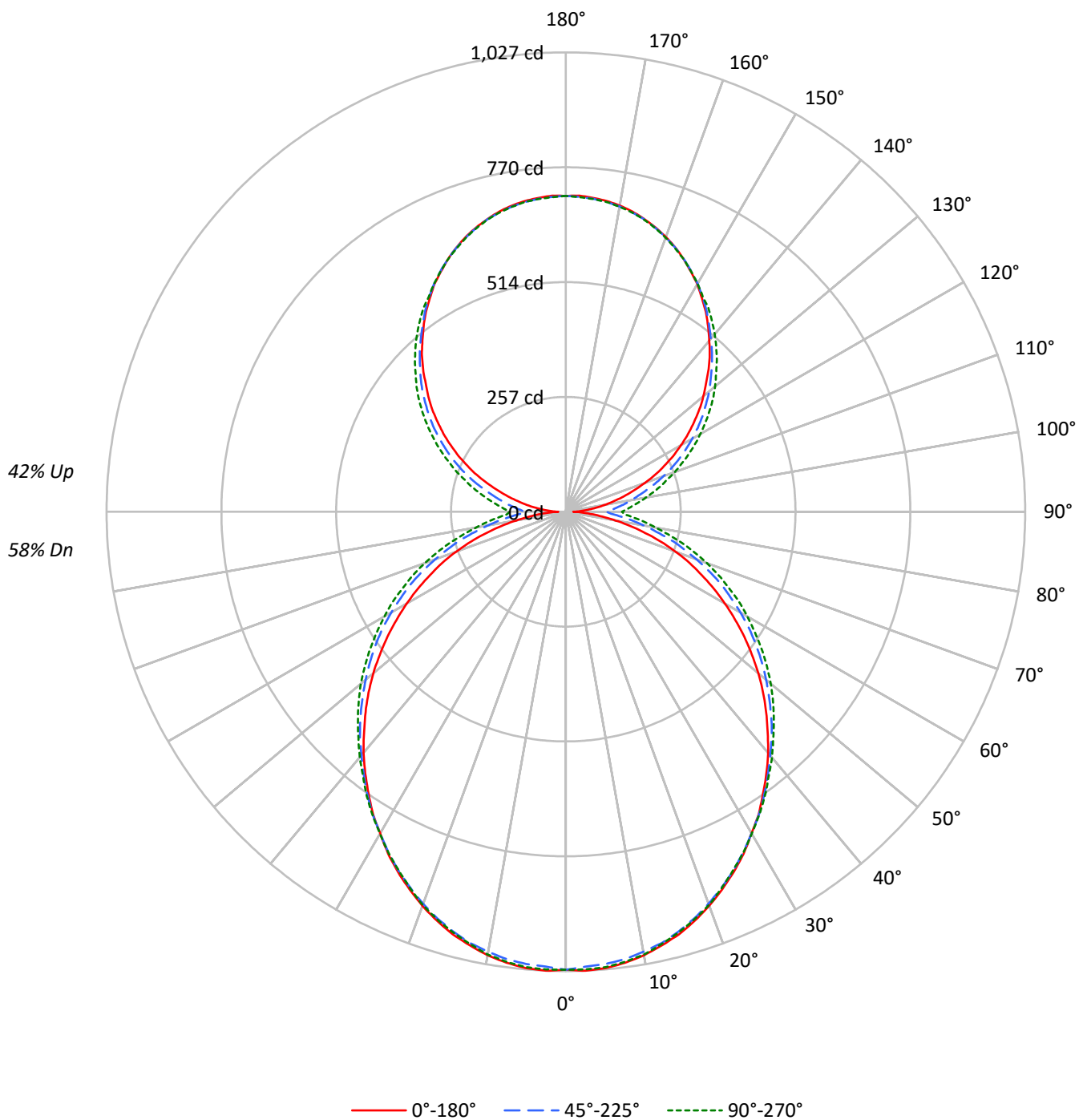
Lumens per Lamp: N/A
Luminaire Lumens: 5144.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	1.9
10°-20°	275.1	5.3
20°-30°	409.0	8.0
30°-40°	484.4	9.4
40°-50°	500.8	9.7
50°-60°	461.3	9.0
60°-70°	372.9	7.2
70°-80°	249.5	4.9
80°-90°	130.1	2.5
90°-100°	119.6	2.3
100°-110°	193.1	3.8
110°-120°	272.5	5.3
120°-130°	331.8	6.4
130°-140°	357.9	7.0
140°-150°	343.9	6.7
150°-160°	287.4	5.6
160°-170°	191.0	3.7
170°-180°	66.8	1.3
0°-30°	781.0	15.2
0°-40°	1265.4	24.6
0°-60°	2227.5	43.3
0°-90°	2980.1	57.9
90°-120°	585.1	11.4
90°-150°	1618.7	31.5
90°-180°	2164.0	42.1
0°-180°	5144.0	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°	17	53	91	117	126	14
95°	49	76	116	142	150	48
105°	134	153	186	210	219	143
115°	243	252	279	297	302	240
125°	350	352	373	388	392	313
135°	452	454	461	474	477	348
145°	546	547	548	554	556	341
155°	623	623	624	626	623	287
165°	678	676	677	679	676	191
175°	704	702	702	706	702	67
180°	706	706	706	706	706	

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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°	16.6	53.1	91.1	116.9	125.6
92.5°	30.6	62.4	102.5	128.4	136.5
95°	48.8	76.0	115.6	141.6	149.7
97.5°	67.0	91.6	132.5	156.8	164.4
100°	87.9	109.0	148.3	174.3	181.5
102.5°	110.6	132.4	166.3	191.9	199.5
105°	134.3	153.1	186.5	209.9	218.6
107.5°	160.2	177.1	208.9	230.7	236.7
110°	187.3	202.1	231.9	252.6	259.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.8	226.0	255.3	273.9	279.9
115°	242.9	252.2	279.4	296.8	302.3
117.5°	270.4	276.0	302.2	319.8	324.6
120°	296.8	302.6	326.2	343.3	347.1
122.5°	324.4	325.9	349.7	365.2	369.6
125°	349.7	352.0	372.6	387.6	392.1
127.5°	376.7	377.3	395.0	409.4	414.4
130°	401.4	403.2	418.4	431.8	435.7
132.5°	425.2	430.1	439.6	453.1	455.5
135°	451.5	453.8	461.4	474.5	477.3
137.5°	476.3	478.6	483.7	496.3	497.6
140°	498.9	501.6	504.3	516.5	517.7
142.5°	522.5	523.7	525.9	535.5	536.8
145°	545.6	546.8	548.5	553.5	555.8
147.5°	566.0	567.7	568.8	572.4	570.0
150°	587.5	586.9	589.1	589.1	589.0
152.5°	605.1	606.2	606.7	608.4	606.2
155°	623.2	623.2	623.7	625.9	623.2
157.5°	639.7	638.6	639.1	641.3	637.5
160°	654.0	652.3	652.9	655.1	652.3
162.5°	666.6	665.5	665.5	668.3	665.0
165°	677.6	676.5	677.1	679.3	676.0
167.5°	687.5	685.3	685.3	688.6	685.3
170°	695.2	693.0	693.0	696.3	692.4
172.5°	700.7	698.5	698.5	701.8	698.5
175°	704.5	702.3	702.3	705.6	701.8
177.5°	707.3	705.1	704.5	707.8	704.0
180°	706.2	706.2	706.2	706.2	706.2

(END OF REPORT)