

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: P1028322

Luminaire Tested: S125DIP-B850D375UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028322
REPORT IS A COMBINATION OF REPORTS P1002594 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-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

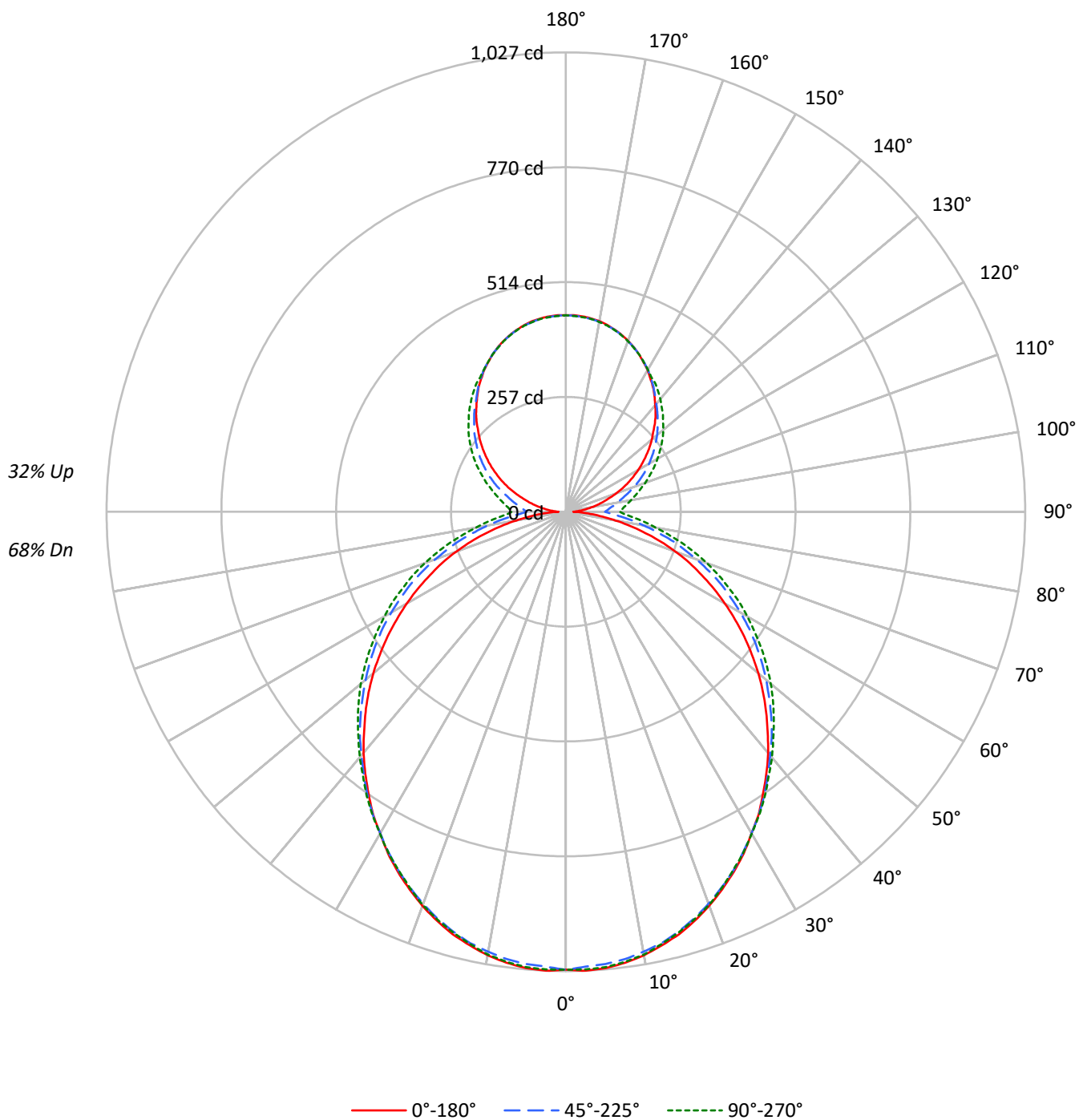
Lumens per Lamp: N/A
Luminaire Lumens: 4399.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	62	62	62
1	101	96	91	88	95	90	87	83	80	77	75	71	69	67	62	61	59	55	54	53
2	91	83	76	71	86	79	73	67	70	65	61	62	58	55	54	52	49	45	44	43
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41	38	37	36
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	35	32	31	30
5	70	57	49	42	65	54	46	41	49	42	37	43	38	34	38	34	31	28	27	26
6	64	51	43	37	60	49	41	35	44	37	32	39	34	30	35	30	27	24	23	22
7	59	46	38	32	56	44	36	31	40	33	29	36	30	26	32	27	24	21	20	19
8	55	42	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21	19	18	17
9	51	39	31	25	48	37	30	25	33	27	23	30	25	21	27	22	19	17	16	15
10	48	35	28	23	45	34	27	22	31	25	21	28	23	19	25	21	18	16	15	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	2.2
10°-20°	275.1	6.3
20°-30°	409.0	9.3
30°-40°	484.4	11.0
40°-50°	500.8	11.4
50°-60°	461.3	10.5
60°-70°	372.9	8.5
70°-80°	249.5	5.7
80°-90°	129.7	2.9
90°-100°	101.9	2.3
100°-110°	140.4	3.2
110°-120°	183.1	4.2
120°-130°	214.1	4.9
130°-140°	226.0	5.1
140°-150°	214.6	4.9
150°-160°	178.8	4.1
160°-170°	118.9	2.7
170°-180°	41.6	0.9
0°-30°	781.0	17.8
0°-40°	1265.4	28.8
0°-60°	2227.5	50.6
0°-90°	2979.7	67.7
90°-120°	425.3	9.7
90°-150°	1080.1	24.6
90°-180°	1419.0	32.3
0°-180°	4399.0	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	13
95°	35	62	100	124	132	34
105°	87	105	137	159	167	93
115°	153	162	189	206	212	152
125°	219	220	241	256	261	196
135°	282	283	290	303	307	217
145°	340	340	341	346	349	212
155°	388	388	388	390	388	179
165°	422	421	421	423	421	119
175°	438	437	437	439	437	42
180°	439	439	439	439	439	

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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°	24.4	55.2	93.3	117.8	125.5
95°	35.3	62.1	99.6	124.1	131.8
97.5°	46.2	70.6	108.6	131.7	139.1
100°	58.9	80.0	116.5	140.7	147.5
102.5°	72.6	93.4	126.2	149.7	156.7
105°	87.0	104.8	136.9	159.1	167.1
107.5°	102.7	118.5	149.3	170.5	176.5
110°	119.2	133.0	162.1	182.2	188.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.9	146.7	175.2	193.5	199.9
115°	153.4	161.8	188.6	206.3	211.9
117.5°	170.2	175.5	201.3	218.7	224.4
120°	186.6	191.3	214.7	231.8	236.5
122.5°	203.4	204.7	227.8	243.6	248.6
125°	219.1	220.1	240.6	256.0	260.6
127.5°	235.5	235.5	253.0	267.6	273.1
130°	250.9	251.6	266.4	280.1	284.4
132.5°	265.3	268.4	278.0	291.8	294.8
135°	281.7	282.8	290.1	303.2	306.8
137.5°	297.1	298.1	302.8	315.3	317.6
140°	310.8	312.5	314.5	326.3	328.6
142.5°	325.5	325.9	327.2	336.6	339.0
145°	339.9	340.2	341.3	346.3	349.2
147.5°	352.2	353.2	353.9	356.9	356.2
150°	365.5	365.2	366.6	366.6	366.9
152.5°	376.5	377.2	377.5	378.5	377.2
155°	387.8	387.8	388.1	389.5	387.8
157.5°	398.0	397.3	397.7	399.0	396.7
160°	406.9	405.9	406.2	407.6	405.9
162.5°	414.8	414.1	414.1	415.8	413.7
165°	421.6	420.9	421.3	422.6	420.6
167.5°	427.8	426.4	426.4	428.5	426.4
170°	432.6	431.2	431.2	433.2	430.8
172.5°	436.0	434.6	434.6	436.7	434.6
175°	438.4	437.0	437.0	439.1	436.7
177.5°	440.1	438.7	438.4	440.4	438.0
180°	439.4	439.4	439.4	439.4	439.4

(END OF REPORT)