

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: P1028295

Luminaire Tested: S125DIP-B850D375UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028295
REPORT IS A COMBINATION OF REPORTS P1002567 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

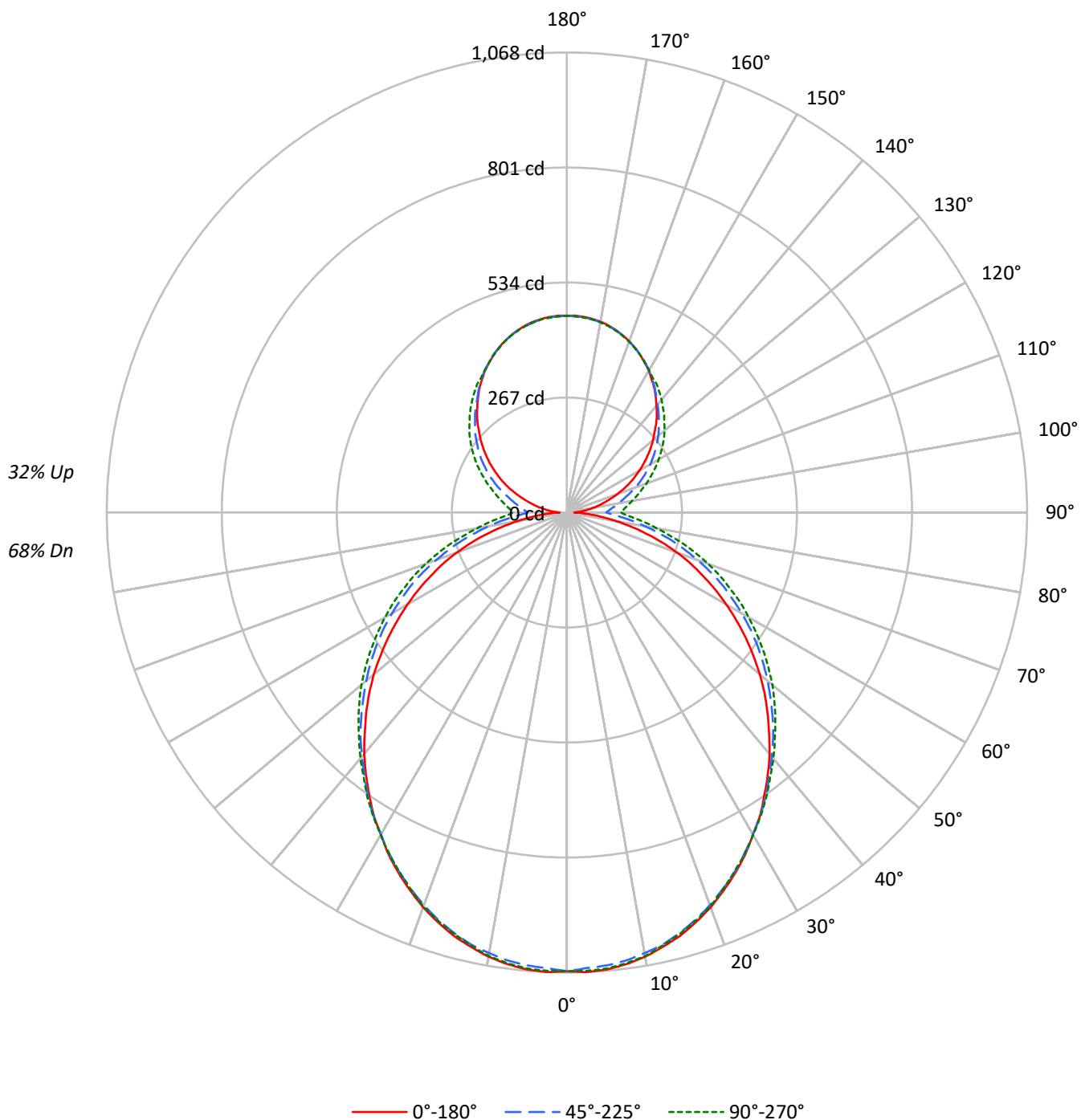
Lumens per Lamp: N/A
Luminaire Lumens: 4575.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	2.2
10°-20°	286.1	6.3
20°-30°	425.4	9.3
30°-40°	503.8	11.0
40°-50°	520.9	11.4
50°-60°	479.8	10.5
60°-70°	387.9	8.5
70°-80°	259.5	5.7
80°-90°	134.9	2.9
90°-100°	105.9	2.3
100°-110°	146.0	3.2
110°-120°	190.4	4.2
120°-130°	222.7	4.9
130°-140°	235.1	5.1
140°-150°	223.2	4.9
150°-160°	185.9	4.1
160°-170°	123.6	2.7
170°-180°	43.3	0.9
0°-30°	812.3	17.8
0°-40°	1316.1	28.8
0°-60°	2316.7	50.6
0°-90°	3099.0	67.7
90°-120°	442.3	9.7
90°-150°	1123.2	24.6
90°-180°	1476.0	32.3
0°-180°	4575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	17	53	91	117	125	13
95°	37	64	104	129	137	35
105°	90	109	142	165	174	96
115°	160	168	196	214	220	158
125°	228	229	250	266	271	204
135°	293	294	302	315	319	226
145°	353	354	355	360	363	221
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	17.1	53.3	91.3	117.1	125.4
92.5°	25.3	57.3	97.0	122.5	130.5
95°	36.7	64.5	103.6	129.1	137.1
97.5°	48.1	73.5	112.9	137.0	144.7
100°	61.3	83.2	121.2	146.3	153.3
102.5°	75.5	97.2	131.2	155.7	163.1
105°	90.5	109.0	142.4	165.4	173.8
107.5°	106.9	123.3	155.3	177.2	183.5
110°	123.9	138.2	168.6	189.4	196.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	152.5	182.2	201.3	207.9
115°	159.6	168.3	196.1	214.5	220.5
117.5°	177.0	182.5	209.3	227.5	233.4
120°	194.0	199.0	223.4	241.1	245.9
122.5°	211.5	212.9	236.9	253.3	258.5
125°	227.9	228.9	250.2	266.1	271.0
127.5°	244.9	245.0	263.0	278.4	284.0
130°	260.9	261.7	277.0	291.2	295.7
132.5°	275.9	279.1	289.2	303.4	306.5
135°	293.0	294.0	301.8	315.3	319.0
137.5°	309.0	310.0	314.9	327.8	330.2
140°	323.2	324.9	327.1	339.3	341.6
142.5°	338.5	338.9	340.3	350.1	352.5
145°	353.4	353.8	354.9	360.1	363.2
147.5°	366.3	367.3	368.0	371.2	370.5
150°	380.1	379.8	381.2	381.2	381.5
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

(END OF REPORT)