

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: P1028294

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028294
REPORT IS A COMBINATION OF REPORTS P1002566 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-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

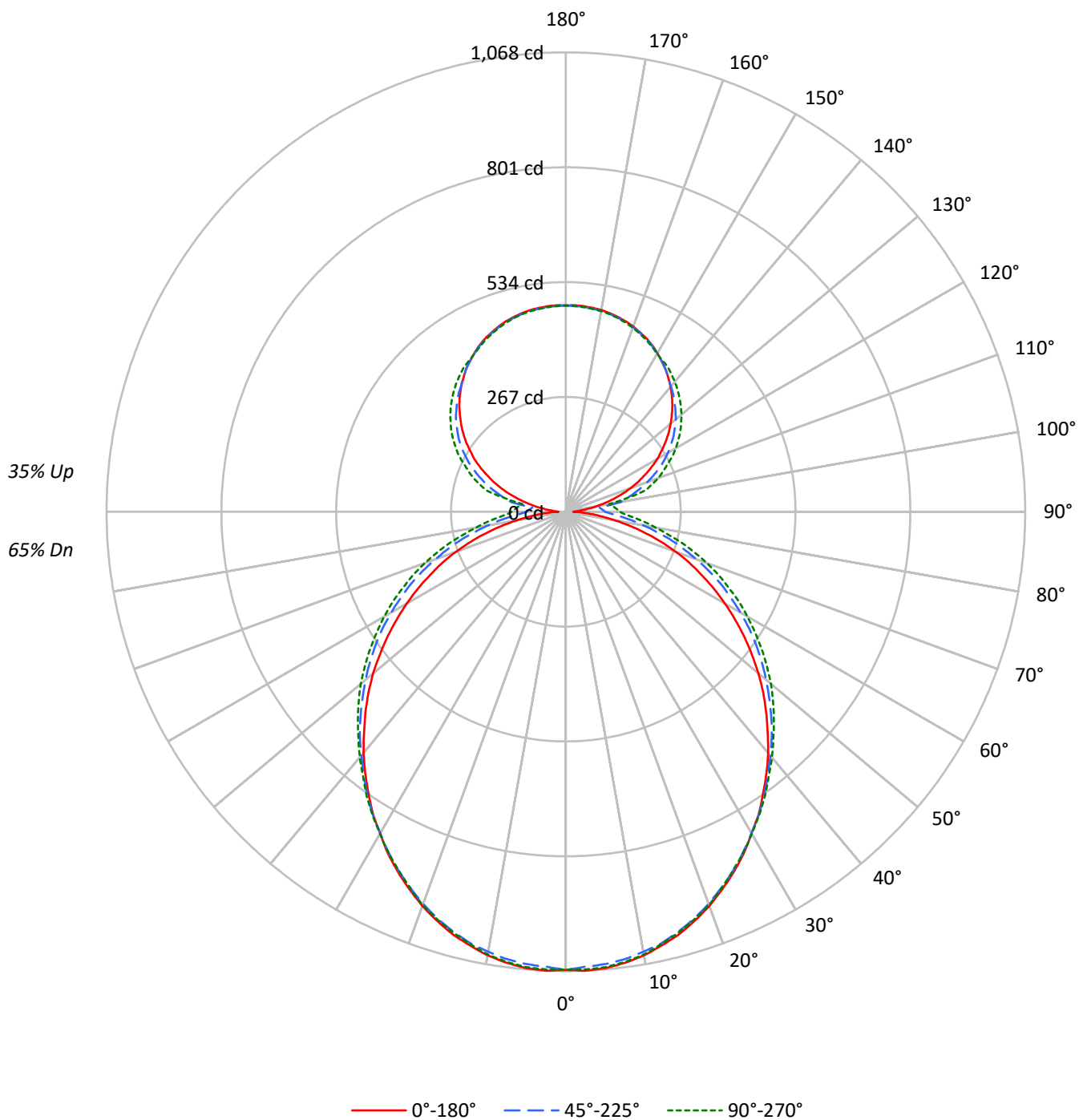
Lumens per Lamp: N/A
Luminaire Lumens: 4773.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1028294

CATALOG NUMBER: S125DIP-B850D375UB30-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1028294

CATALOG NUMBER: S125DIP-B850D375UB30-4F0-XX-W2A-D

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°	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

TEST NUMBER: P1028294

CATALOG NUMBER: S125DIP-B850D375UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	2.1
10°-20°	286.1	6.0
20°-30°	425.4	8.9
30°-40°	503.8	10.6
40°-50°	520.9	10.9
50°-60°	479.8	10.1
60°-70°	387.9	8.1
70°-80°	259.5	5.4
80°-90°	134.9	2.8
90°-100°	91.8	1.9
100°-110°	163.9	3.4
110°-120°	232.2	4.9
120°-130°	271.3	5.7
130°-140°	278.3	5.8
140°-150°	254.4	5.3
150°-160°	204.3	4.3
160°-170°	132.1	2.8
170°-180°	45.6	1.0
0°-30°	812.3	17.0
0°-40°	1316.1	27.6
0°-60°	2316.7	48.5
0°-90°	3099.0	64.9
90°-120°	488.0	10.2
90°-150°	1292.0	27.1
90°-180°	1674.0	35.1
0°-180°	4773.0	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°	34	60	82	107	114	36
105°	114	132	163	184	191	121
115°	203	212	239	256	261	201
125°	283	285	306	321	325	253
135°	350	351	358	371	374	270
145°	404	404	404	410	412	253
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

TEST NUMBER: P1028294

CATALOG NUMBER: S125DIP-B850D375UB30-4F0-XX-W2A-D

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°	21.4	48.5	87.1	111.9	119.5
95°	33.9	59.9	81.9	106.7	114.0
97.5°	50.5	77.8	78.4	101.1	108.8
100°	70.9	93.8	128.7	97.6	102.5
102.5°	91.5	112.8	145.8	167.4	143.8
105°	113.9	132.0	163.3	184.2	191.2
107.5°	137.1	151.7	182.6	203.9	208.7
110°	159.5	172.0	202.0	220.7	228.4



TEST NUMBER: P1028294

CATALOG NUMBER: S125DIP-B850D375UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.5	192.0	220.5	237.9	244.5
115°	202.6	211.6	239.1	256.5	260.6
117.5°	224.6	229.8	257.3	273.0	279.5
120°	245.9	248.7	273.8	290.8	295.3
122.5°	263.7	266.5	289.9	305.9	310.0
125°	283.3	284.7	305.6	320.9	325.0
127.5°	301.0	301.8	319.2	334.2	337.6
130°	318.1	318.9	333.8	347.4	350.8
132.5°	334.2	336.3	345.6	360.2	362.7
135°	350.2	351.2	357.9	370.7	373.7
137.5°	365.1	366.1	369.6	382.1	384.5
140°	378.6	379.3	380.0	392.2	394.2
142.5°	391.7	391.1	391.8	401.2	403.3
145°	404.5	404.2	404.2	409.8	411.9
147.5°	414.9	414.9	415.3	417.7	417.3
150°	425.6	424.9	425.6	426.3	424.4
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)