

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: P1028304

Luminaire Tested: S125DIP-B850D375UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028304
REPORT IS A COMBINATION OF REPORTS P1002576 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

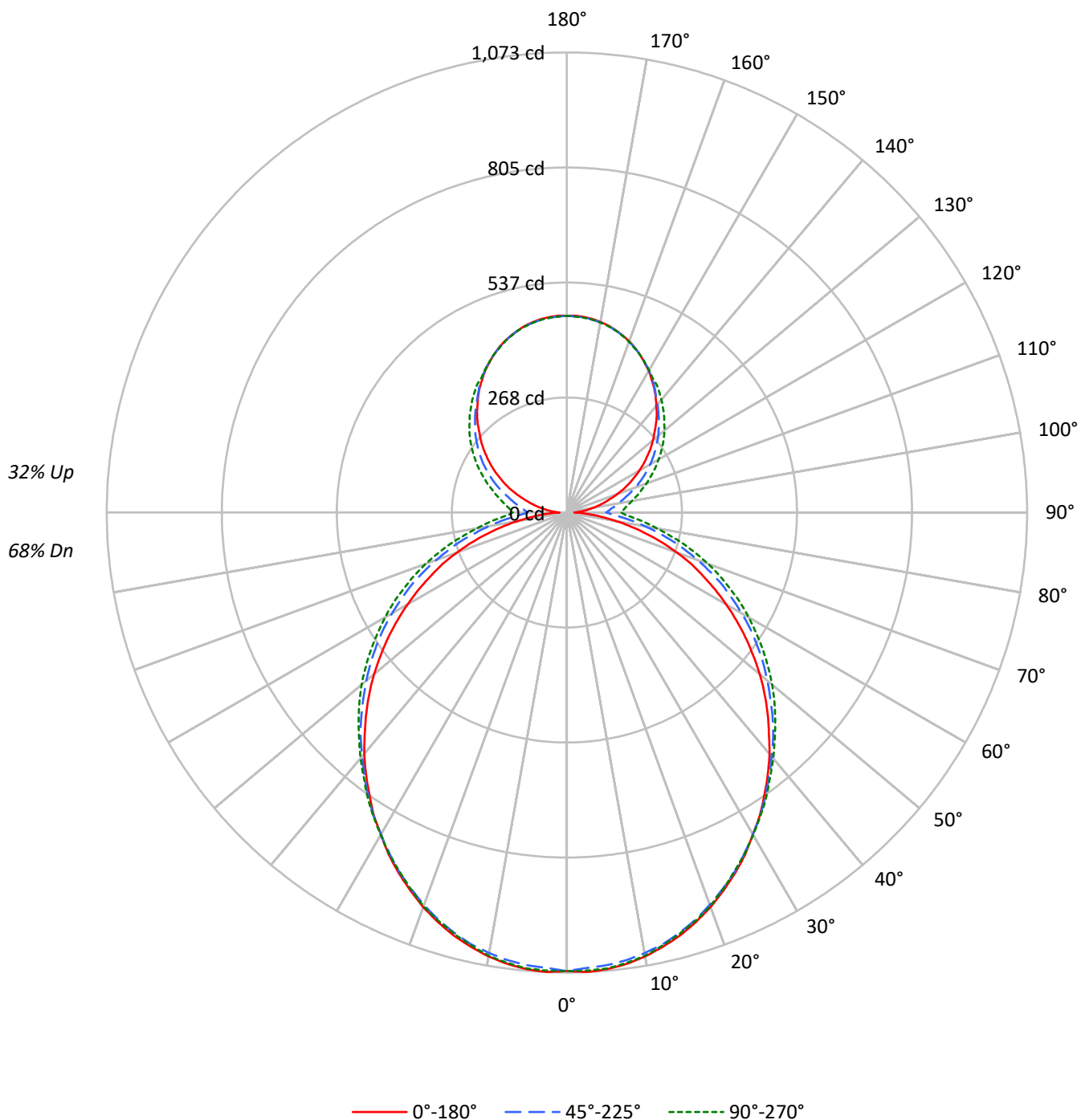
Lumens per Lamp: N/A
Luminaire Lumens: 4594.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	101	96	91	88	95	90	87	83	80	77	75	71	69	67	62	61	59
2	91	83	76	71	86	79	73	67	70	65	61	62	58	55	54	52	49
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	35
5	70	57	49	42	65	54	46	41	49	42	37	43	38	34	38	34	31
6	64	51	43	37	60	49	41	35	44	37	32	39	34	30	35	30	27
7	59	46	38	32	56	44	36	31	40	33	29	36	30	26	32	27	24
8	55	42	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21
9	51	39	31	25	48	37	30	25	33	27	23	30	25	21	27	22	19
10	48	35	28	23	45	34	27	22	31	25	21	28	23	19	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	2.2
10°-20°	287.3	6.3
20°-30°	427.2	9.3
30°-40°	505.9	11.0
40°-50°	523.1	11.4
50°-60°	481.9	10.5
60°-70°	389.5	8.5
70°-80°	260.6	5.7
80°-90°	135.4	2.9
90°-100°	106.4	2.3
100°-110°	146.6	3.2
110°-120°	191.1	4.2
120°-130°	223.5	4.9
130°-140°	236.0	5.1
140°-150°	224.1	4.9
150°-160°	186.7	4.1
160°-170°	124.1	2.7
170°-180°	43.4	0.9
0°-30°	815.7	17.8
0°-40°	1321.6	28.8
0°-60°	2326.6	50.6
0°-90°	3112.1	67.7
90°-120°	444.1	9.7
90°-150°	1127.7	24.5
90°-180°	1482.0	32.3
0°-180°	4594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	17	54	92	118	126	13
95°	37	65	104	130	138	35
105°	91	109	143	166	174	97
115°	160	169	197	215	221	158
125°	229	230	251	267	272	205
135°	294	295	303	316	320	227
145°	355	355	356	362	365	222
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	17.2	53.5	91.7	117.6	126.0
92.5°	25.4	57.6	97.5	123.0	131.1
95°	36.8	64.8	104.0	129.6	137.6
97.5°	48.3	73.8	113.4	137.6	145.3
100°	61.5	83.6	121.7	146.9	153.9
102.5°	75.8	97.5	131.8	156.4	163.7
105°	90.8	109.4	143.0	166.1	174.5
107.5°	107.3	123.8	156.0	177.9	184.2
110°	124.4	138.8	169.2	190.2	197.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.0	153.2	182.9	202.2	208.7
115°	160.2	168.9	196.9	215.4	221.4
117.5°	177.6	183.3	210.2	228.4	234.3
120°	194.8	199.7	224.2	242.0	246.9
122.5°	212.3	213.7	237.9	254.3	259.5
125°	228.7	229.8	251.1	267.2	272.1
127.5°	245.9	245.9	264.1	279.4	285.0
130°	261.9	262.7	278.1	292.5	296.9
132.5°	277.0	280.2	290.3	304.7	307.8
135°	294.1	295.2	302.9	316.5	320.4
137.5°	310.2	311.2	316.1	329.1	331.5
140°	324.4	326.2	328.4	340.6	343.0
142.5°	339.8	340.2	341.6	351.4	353.8
145°	354.8	355.2	356.3	361.5	364.6
147.5°	367.7	368.8	369.5	372.7	371.9
150°	381.6	381.3	382.7	382.7	383.0
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)