

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: P1028305

Luminaire Tested: S125DIP-B850D375UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028305
REPORT IS A COMBINATION OF REPORTS P1002577 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-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

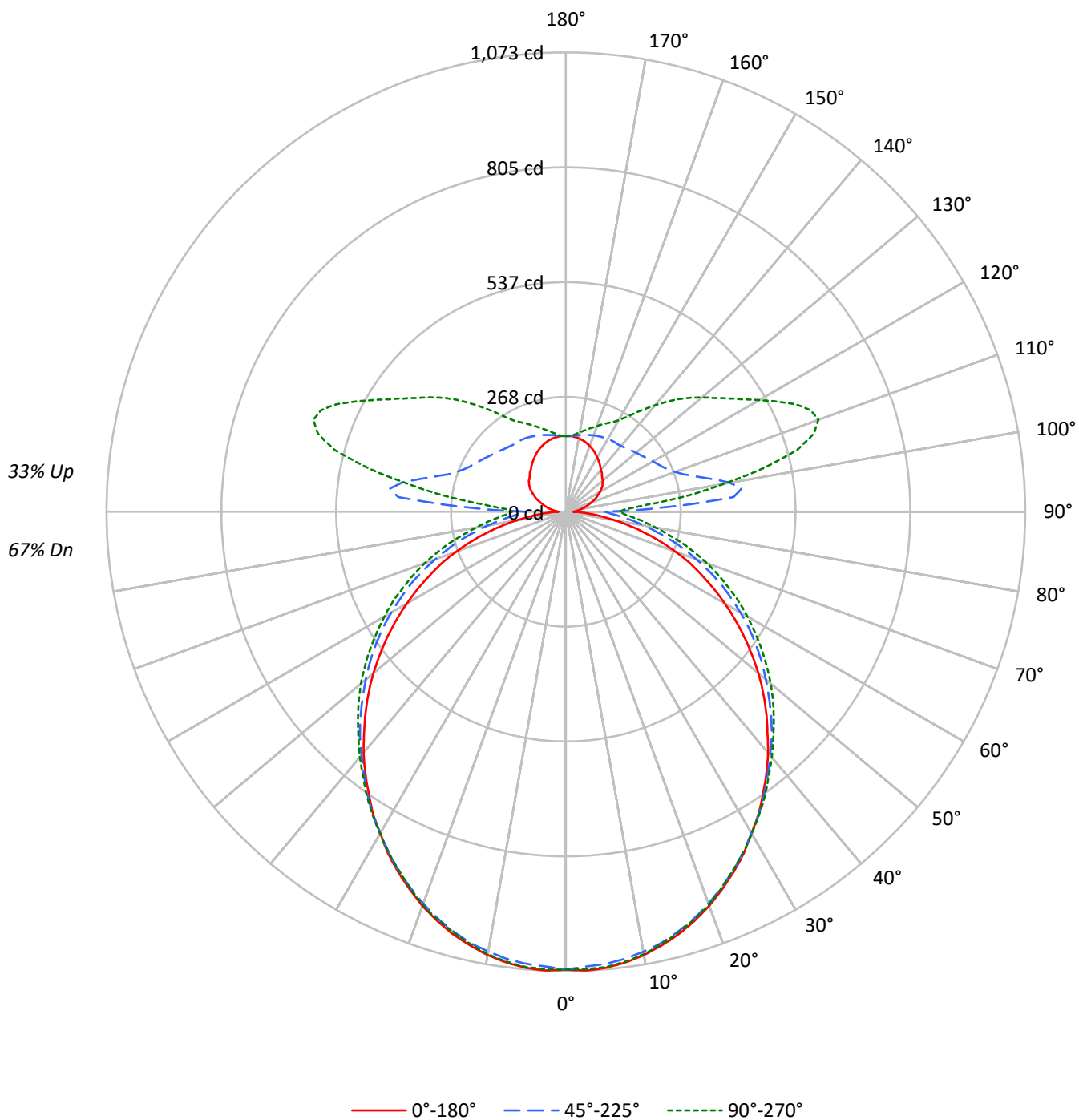
Lumens per Lamp: N/A
Luminaire Lumens: 4646.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	87	95	90	86	83	80	77	74	71	68	66	62	60	59
2	91	83	76	71	86	78	72	67	70	65	61	61	58	55	54	51	49
3	83	73	65	58	78	69	62	56	61	55	51	54	50	46	47	44	41
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35
5	70	57	49	42	65	54	46	40	48	42	37	43	38	34	38	34	30
6	64	51	43	37	60	49	41	35	44	37	32	39	34	29	34	30	27
7	59	46	38	32	56	44	36	31	40	33	28	35	30	26	31	27	24
8	55	42	34	28	52	40	33	27	36	30	25	32	27	23	29	24	21
9	51	39	31	25	48	37	29	24	33	27	23	30	25	21	27	22	19
10	48	35	28	23	45	34	27	22	31	25	20	28	22	19	25	20	17

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	6.2
20°-30°	427.2	9.2
30°-40°	505.9	10.9
40°-50°	523.1	11.3
50°-60°	481.9	10.4
60°-70°	389.5	8.4
70°-80°	260.6	5.6
80°-90°	135.4	2.9
90°-100°	209.3	4.5
100°-110°	333.0	7.2
110°-120°	296.2	6.4
120°-130°	230.6	5.0
130°-140°	177.5	3.8
140°-150°	128.8	2.8
150°-160°	89.4	1.9
160°-170°	52.7	1.1
170°-180°	17.1	0.4
0°-30°	815.7	17.6
0°-40°	1321.6	28.4
0°-60°	2326.6	50.1
0°-90°	3112.1	67.0
90°-120°	838.4	18.0
90°-150°	1375.3	29.6
90°-180°	1535.0	33.0
0°-180°	4646.7	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	12
95°	25	76	393	243	191	23
105°	50	83	317	588	559	53
115°	78	101	249	508	593	77
125°	104	120	223	397	461	92
135°	119	142	206	321	372	93
145°	137	156	198	252	282	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

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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	53.6	91.7	117.6	125.6
92.5°	20.1	74.4	224.3	142.8	138.6
95°	25.4	75.8	392.9	243.2	190.8
97.5°	30.8	75.4	414.0	353.6	285.6
100°	36.5	76.8	389.5	455.4	373.9
102.5°	43.0	79.8	351.4	541.0	474.4
105°	49.8	82.6	316.6	588.4	559.1
107.5°	56.2	86.8	290.2	598.9	607.4
110°	63.4	91.4	271.4	579.7	627.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.6	95.9	258.6	545.0	619.4
115°	78.4	100.6	248.7	507.8	593.2
117.5°	84.5	105.5	241.3	472.5	557.2
120°	91.6	111.0	235.0	443.1	521.2
122.5°	98.1	115.4	229.0	417.8	488.8
125°	104.2	120.2	223.4	397.2	461.4
127.5°	108.1	126.0	218.4	378.1	436.8
130°	112.7	132.4	214.6	359.8	415.6
132.5°	115.3	138.2	210.4	340.4	394.3
135°	119.2	141.8	206.2	320.7	372.2
137.5°	124.2	146.3	203.4	301.4	348.4
140°	127.4	150.1	200.6	283.2	324.5
142.5°	132.4	152.6	198.9	267.0	302.1
145°	137.4	156.2	198.5	252.5	281.5
147.5°	141.8	159.4	197.8	240.4	261.7
150°	146.4	162.3	196.8	231.0	246.7
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)