

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: P1028395

Luminaire Tested: S125DIP-B850D850UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028395
REPORT IS A COMBINATION OF REPORTS P1002697 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D850UB35-4F0-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

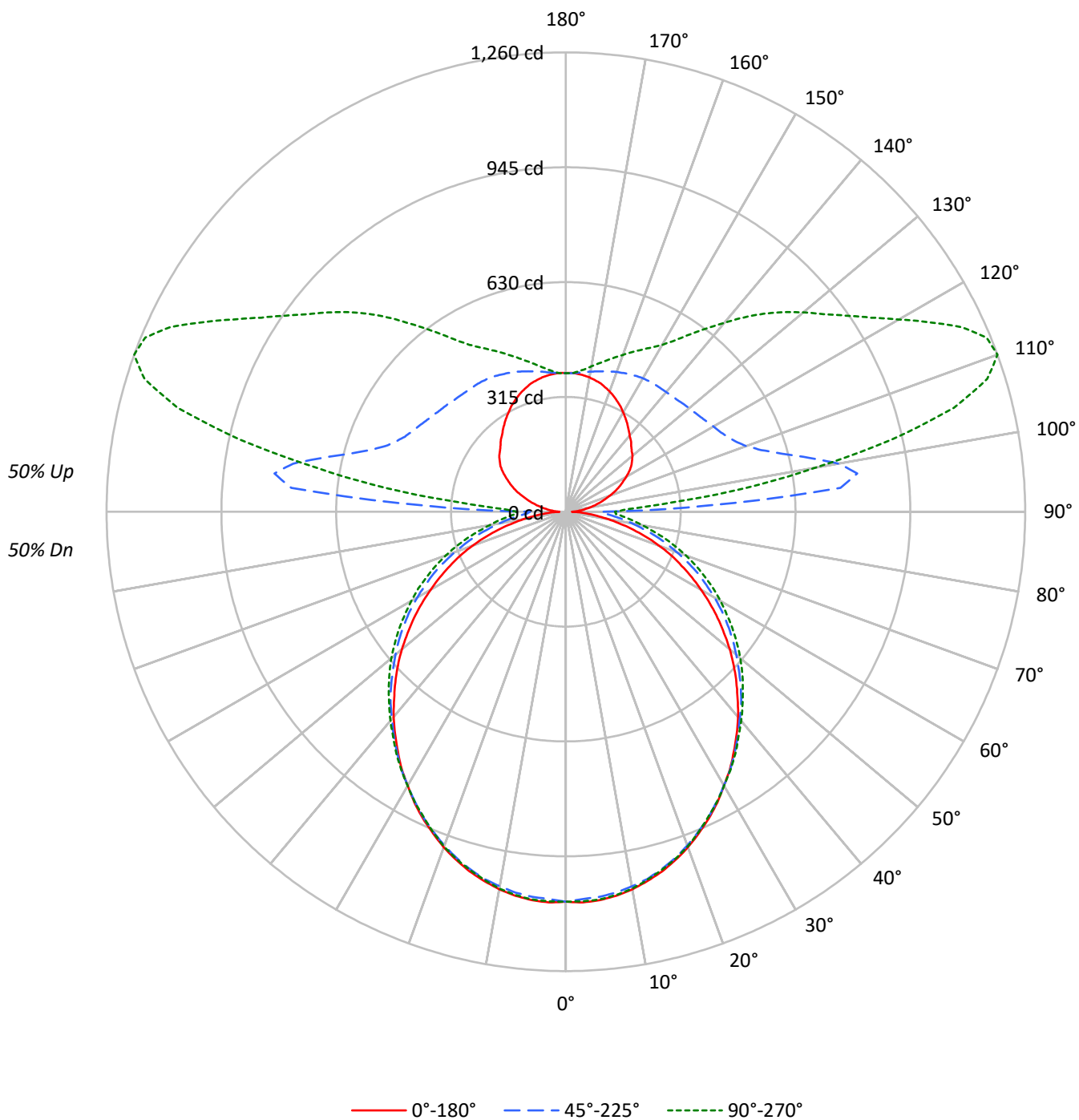
Lumens per Lamp: N/A
Luminaire Lumens: 6177.8 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56
1	97	92	88	85	89	85	82	79	72	69	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	53	41	34	29	36	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14

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	1.6
10°-20°	287.3	4.7
20°-30°	427.2	6.9
30°-40°	505.9	8.2
40°-50°	523.1	8.5
50°-60°	481.9	7.8
60°-70°	389.5	6.3
70°-80°	260.6	4.2
80°-90°	136.2	2.2
90°-100°	362.3	5.9
100°-110°	651.0	10.5
110°-120°	593.3	9.6
120°-130°	470.9	7.6
130°-140°	370.6	6.0
140°-150°	274.6	4.4
150°-160°	192.1	3.1
160°-170°	113.2	1.8
170°-180°	36.8	0.6
0°-30°	815.7	13.2
0°-40°	1321.6	21.4
0°-60°	2326.6	37.7
0°-90°	3112.9	50.4
90°-120°	1606.7	26.0
90°-150°	2722.8	44.1
90°-180°	3065.0	49.6
0°-180°	6177.8	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°	18	57	98	126	135	13
95°	39	116	756	408	287	37
105°	96	147	614	1174	1102	101
115°	161	200	487	1022	1198	159
125°	219	255	452	806	938	194
135°	254	304	433	664	768	197
145°	294	336	426	536	594	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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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°	17.6	57.2	98.3	126.2	135.0
92.5°	26.2	108.0	387.8	186.5	169.0
95°	38.9	115.6	756.1	408.0	287.1
97.5°	51.7	118.6	806.3	651.2	496.7
100°	65.2	126.4	759.7	876.0	693.7
102.5°	80.3	136.6	682.7	1065.7	915.5
105°	96.1	147.4	613.8	1173.5	1102.3
107.5°	111.2	160.0	562.0	1201.2	1212.1
110°	127.7	173.3	526.4	1165.7	1260.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.4	186.7	503.8	1097.2	1248.7
115°	161.2	200.4	487.3	1022.0	1198.2
117.5°	175.5	214.5	476.2	952.3	1125.8
120°	190.8	228.9	467.4	894.0	1054.5
122.5°	205.9	241.8	459.4	845.4	991.0
125°	219.0	254.7	452.1	806.4	938.1
127.5°	228.6	268.2	446.4	771.2	890.2
130°	238.6	282.0	441.7	736.8	850.5
132.5°	245.2	294.4	437.5	700.0	810.8
135°	253.7	303.5	433.3	663.6	768.2
137.5°	264.4	313.2	430.9	626.8	723.1
140°	272.5	321.2	428.6	592.7	676.7
142.5°	283.3	327.9	427.2	562.8	633.4
145°	294.0	335.5	426.5	536.4	593.9
147.5°	304.5	342.4	424.9	514.0	557.2
150°	314.5	348.6	422.6	496.3	528.7
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)