

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: P1035659

Luminaire Tested: S125DIW-B850D770UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035659
REPORT IS A COMBINATION OF REPORTS P1004346 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D770UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

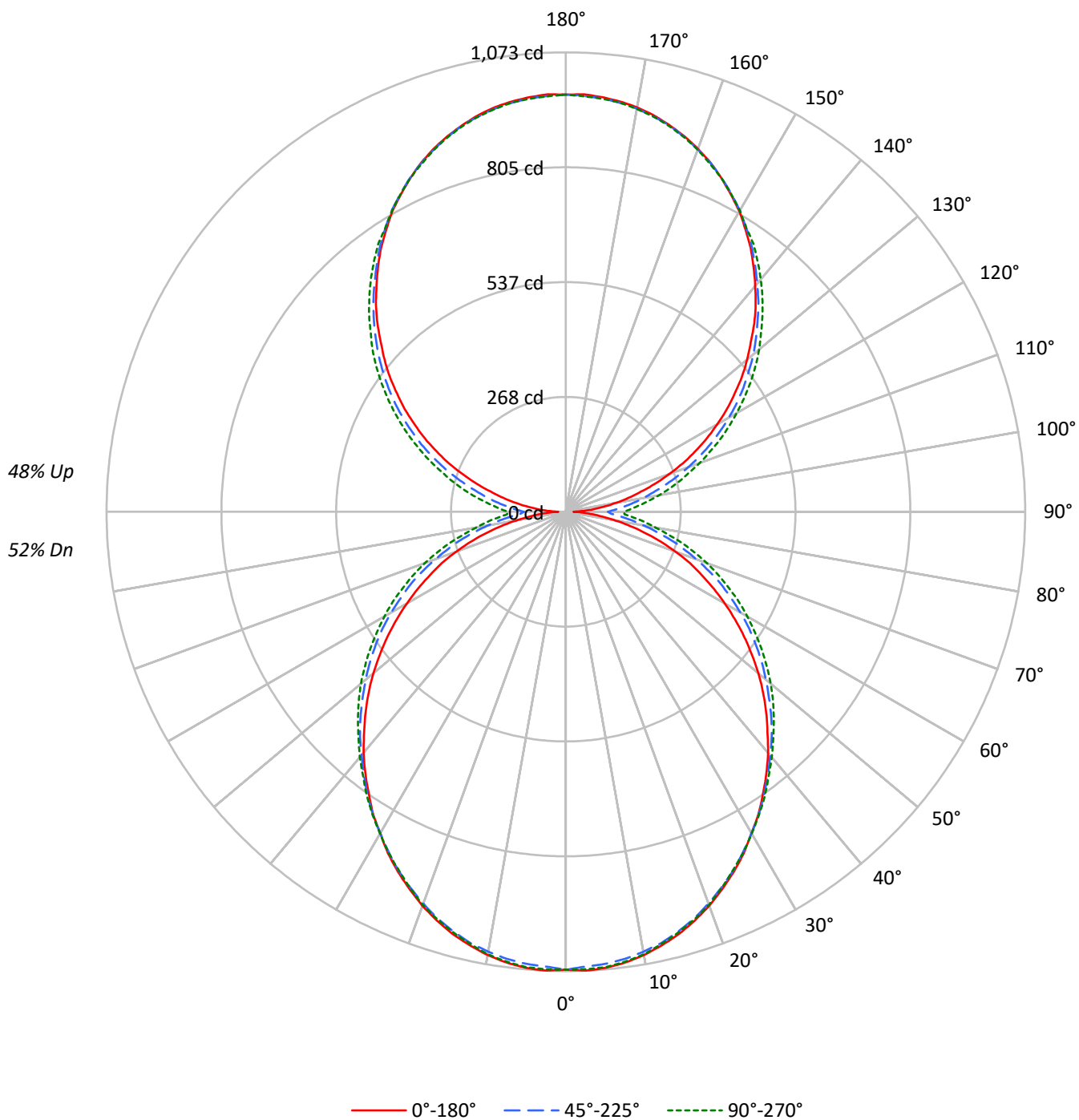
Lumens per Lamp: N/A
Luminaire Lumens: 6034.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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
RCR																	
0	108	108	108	108	99	99	99	99	84	84	84		70	70	70		58
1	97	93	89	85	90	86	82	79	73	70	68		61	59	57		50
2	88	81	74	69	81	75	69	64	63	59	55		53	50	47		43
3	80	71	63	57	74	65	59	53	56	50	46		47	43	39		38
4	73	62	54	48	67	58	50	45	49	44	39		41	37	34		34
5	67	55	47	41	62	51	44	38	44	38	34		37	32	29		30
6	62	50	41	35	57	46	39	33	40	34	29		33	29	25		28
7	57	45	37	31	53	42	34	29	36	30	26		30	26	22		25
8	53	41	33	27	49	38	31	26	33	27	23		28	23	20		23
9	49	37	29	24	46	35	28	23	30	24	20		25	21	18		21
10	46	34	27	22	43	32	25	21	28	22	18		24	19	16		20

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	1.7
10°-20°	287.3	4.8
20°-30°	427.2	7.1
30°-40°	505.9	8.4
40°-50°	523.1	8.7
50°-60°	481.9	8.0
60°-70°	389.5	6.5
70°-80°	260.6	4.3
80°-90°	136.2	2.3
90°-100°	140.7	2.3
100°-110°	248.4	4.1
110°-120°	363.9	6.0
120°-130°	451.0	7.5
130°-140°	490.9	8.1
140°-150°	473.9	7.9
150°-160°	396.5	6.6
160°-170°	263.6	4.4
170°-180°	92.2	1.5
0°-30°	815.7	13.5
0°-40°	1321.6	21.9
0°-60°	2326.6	38.6
0°-90°	3112.9	51.6
90°-120°	753.0	12.5
90°-150°	2168.7	35.9
90°-180°	2921.0	48.4
0°-180°	6034.0	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°	18	57	98	126	136	15
95°	63	92	135	163	172	62
105°	182	203	239	264	274	194
115°	333	344	372	390	396	330
125°	481	485	506	522	526	431
135°	622	626	634	648	650	480
145°	752	754	757	762	764	470
155°	860	860	861	864	860	396
165°	935	934	934	937	933	264
175°	972	969	969	974	968	92
180°	974	974	974	974	974	

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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	57.1	98.1	126.0	135.6
92.5°	37.4	71.6	115.2	143.5	152.4
95°	62.9	91.7	134.9	163.3	172.1
97.5°	88.4	114.3	159.5	186.2	194.2
100°	117.7	139.8	183.1	211.9	219.8
102.5°	149.3	173.0	209.3	237.8	246.4
105°	182.3	202.9	238.9	264.4	274.1
107.5°	218.4	236.9	271.1	294.3	300.6
110°	256.0	272.4	304.1	326.3	332.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	295.5	306.5	337.8	357.5	363.2
115°	333.1	343.5	372.3	390.4	396.0
117.5°	371.5	377.5	405.2	423.8	428.2
120°	407.9	414.8	439.7	457.5	460.8
122.5°	446.3	448.0	473.4	489.5	493.5
125°	481.2	484.6	506.4	521.7	526.1
127.5°	518.7	520.0	538.6	553.5	558.3
130°	552.9	555.7	571.9	585.8	589.5
132.5°	586.0	592.8	602.6	616.5	618.4
135°	622.4	625.8	634.0	647.6	649.9
137.5°	656.5	660.0	665.7	679.0	679.4
140°	688.0	691.8	695.2	708.2	708.6
142.5°	720.6	722.7	725.7	735.8	736.3
145°	752.5	754.5	756.8	762.0	763.9
147.5°	781.0	783.3	784.8	789.2	785.2
150°	810.6	809.9	812.9	812.9	812.4
152.5°	834.9	836.4	837.2	839.4	836.4
155°	859.9	859.9	860.7	863.7	859.9
157.5°	882.7	881.1	881.9	884.9	879.6
160°	902.4	900.1	900.8	903.9	900.1
162.5°	919.8	918.3	918.3	922.1	917.5
165°	935.0	933.5	934.2	937.2	932.7
167.5°	948.6	945.6	945.6	950.1	945.6
170°	959.2	956.2	956.2	960.8	955.4
172.5°	966.8	963.8	963.8	968.3	963.8
175°	972.1	969.1	969.1	973.6	968.3
177.5°	975.9	972.9	972.1	976.7	971.4
180°	974.4	974.4	974.4	974.4	974.4

(END OF REPORT)