

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: P1035599

Luminaire Tested: S125DIW-B850D1560UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035599
REPORT IS A COMBINATION OF REPORTS P1004214 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1560UB35-4F0-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

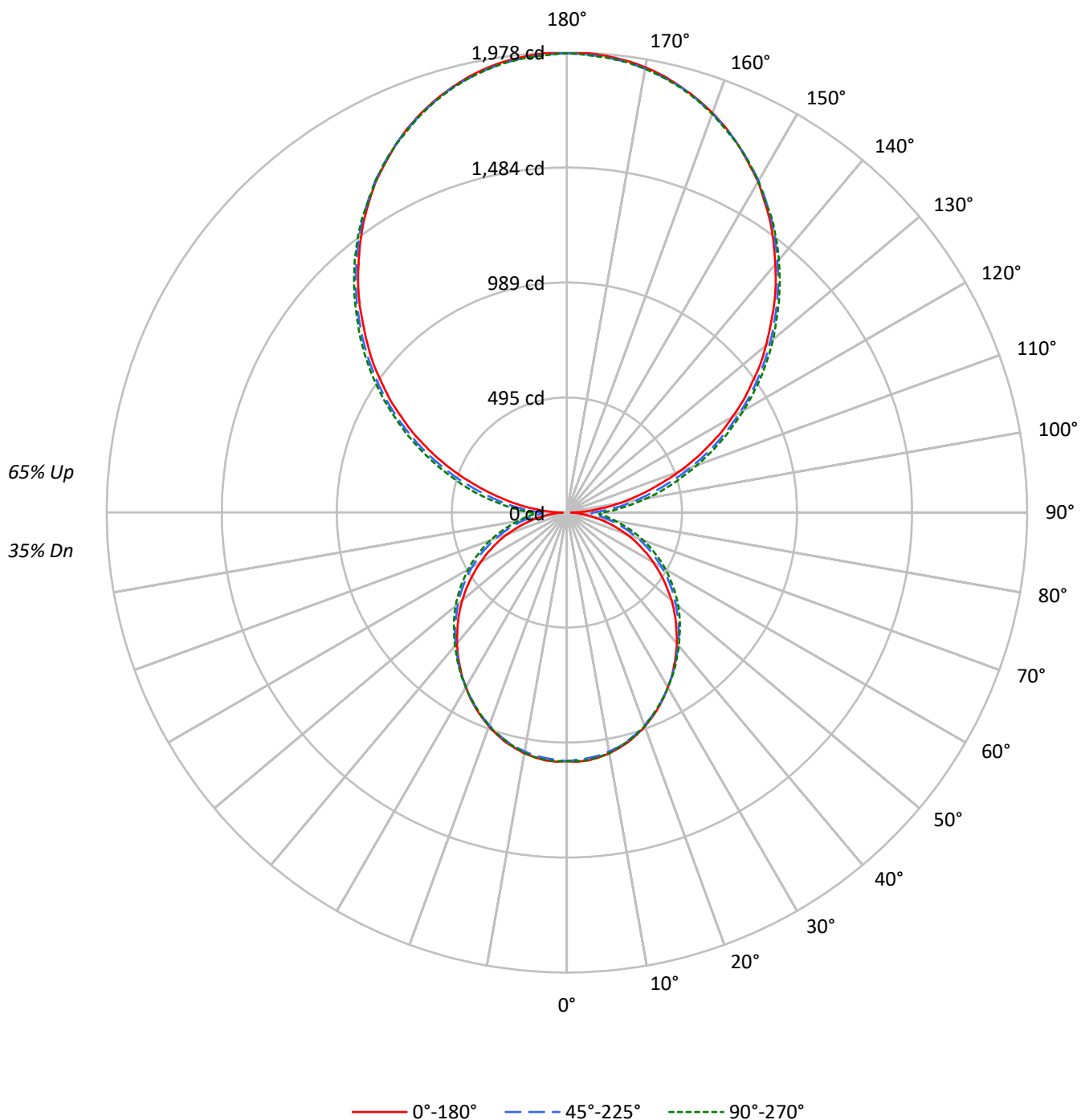
Lumens per Lamp: N/A
Luminaire Lumens: 8827.9 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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	30	10
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	94	89	85	82	85	81	78	75	65	63	60	50	49	47	37	36	35
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29
3	78	68	61	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	55	48	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	49	42	36	39	34	30	31	27	24	23	20	18
6	60	48	40	34	54	43	36	31	35	30	26	28	24	21	20	18	16
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10

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	1.1
10°-20°	287.3	3.3
20°-30°	427.2	4.8
30°-40°	505.9	5.7
40°-50°	523.1	5.9
50°-60°	481.9	5.5
60°-70°	389.5	4.4
70°-80°	260.6	3.0
80°-90°	137.8	1.6
90°-100°	207.2	2.3
100°-110°	446.1	5.1
110°-120°	699.1	7.9
120°-130°	892.3	10.1
130°-140°	985.4	11.2
140°-150°	958.6	10.9
150°-160°	803.7	9.1
160°-170°	534.2	6.1
170°-180°	186.9	2.1
0°-30°	815.7	9.2
0°-40°	1321.6	15.0
0°-60°	2326.6	26.4
0°-90°	3114.5	35.3
90°-120°	1352.4	15.3
90°-150°	4188.6	47.4
90°-180°	5713.0	64.7
0°-180°	8827.9	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	64	111	142	154	18
95°	114	144	195	229	239	115
105°	360	384	425	455	467	384
115°	669	682	712	730	735	662
125°	971	979	1002	1015	1019	870
135°	1259	1267	1276	1290	1289	971
145°	1524	1529	1534	1539	1539	953
155°	1743	1743	1744	1751	1743	803
165°	1895	1892	1894	1900	1890	535
175°	1970	1964	1964	1973	1963	187
180°	1975	1975	1975	1975	1975	

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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°	18.3	64.1	110.6	142.4	154.3
92.5°	60.8	98.9	149.4	183.2	193.7
95°	113.5	143.9	194.8	228.7	239.1
97.5°	166.3	192.9	249.0	280.4	289.2
100°	226.7	248.8	302.2	338.1	347.5
102.5°	291.8	319.3	359.5	395.9	406.8
105°	359.8	384.3	425.0	455.1	467.2
107.5°	434.1	456.5	494.6	520.1	526.4
110°	511.4	531.7	565.7	590.2	596.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	591.3	603.9	638.4	658.8	663.0
115°	668.7	682.2	712.5	729.9	734.7
117.5°	747.5	754.4	783.6	803.0	804.2
120°	821.3	832.2	857.8	875.6	875.8
122.5°	900.2	902.8	930.5	945.7	947.4
125°	970.9	979.0	1001.6	1015.3	1019.0
127.5°	1048.2	1051.8	1071.2	1085.3	1088.5
130°	1117.4	1124.1	1141.8	1155.0	1157.1
132.5°	1185.5	1199.4	1208.3	1221.5	1221.1
135°	1259.3	1267.4	1276.4	1290.0	1289.1
137.5°	1328.5	1336.6	1343.9	1358.0	1354.5
140°	1393.5	1401.1	1406.9	1421.4	1417.9
142.5°	1459.5	1464.7	1470.8	1481.8	1478.3
145°	1524.1	1529.2	1533.9	1539.1	1538.6
147.5°	1583.0	1587.6	1590.7	1597.4	1587.2
150°	1643.0	1641.4	1647.6	1647.6	1645.5
152.5°	1692.2	1695.2	1696.8	1701.4	1695.2
155°	1742.9	1742.9	1744.4	1750.6	1742.9
157.5°	1789.0	1785.9	1787.4	1793.6	1782.8
160°	1828.9	1824.3	1825.9	1832.0	1824.3
162.5°	1864.3	1861.2	1861.2	1868.9	1859.7
165°	1895.0	1892.0	1893.5	1899.6	1890.4
167.5°	1922.7	1916.5	1916.5	1925.8	1916.5
170°	1944.2	1938.1	1938.1	1947.3	1936.5
172.5°	1959.6	1953.4	1953.4	1962.7	1953.4
175°	1970.3	1964.2	1964.2	1973.4	1962.7
177.5°	1978.0	1971.9	1970.3	1979.6	1968.8
180°	1974.9	1974.9	1974.9	1974.9	1974.9

(END OF REPORT)