

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: P1034650

Luminaire Tested: S125DIW-B850D1560UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034650
REPORT IS A COMBINATION OF REPORTS P1004189 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1560UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

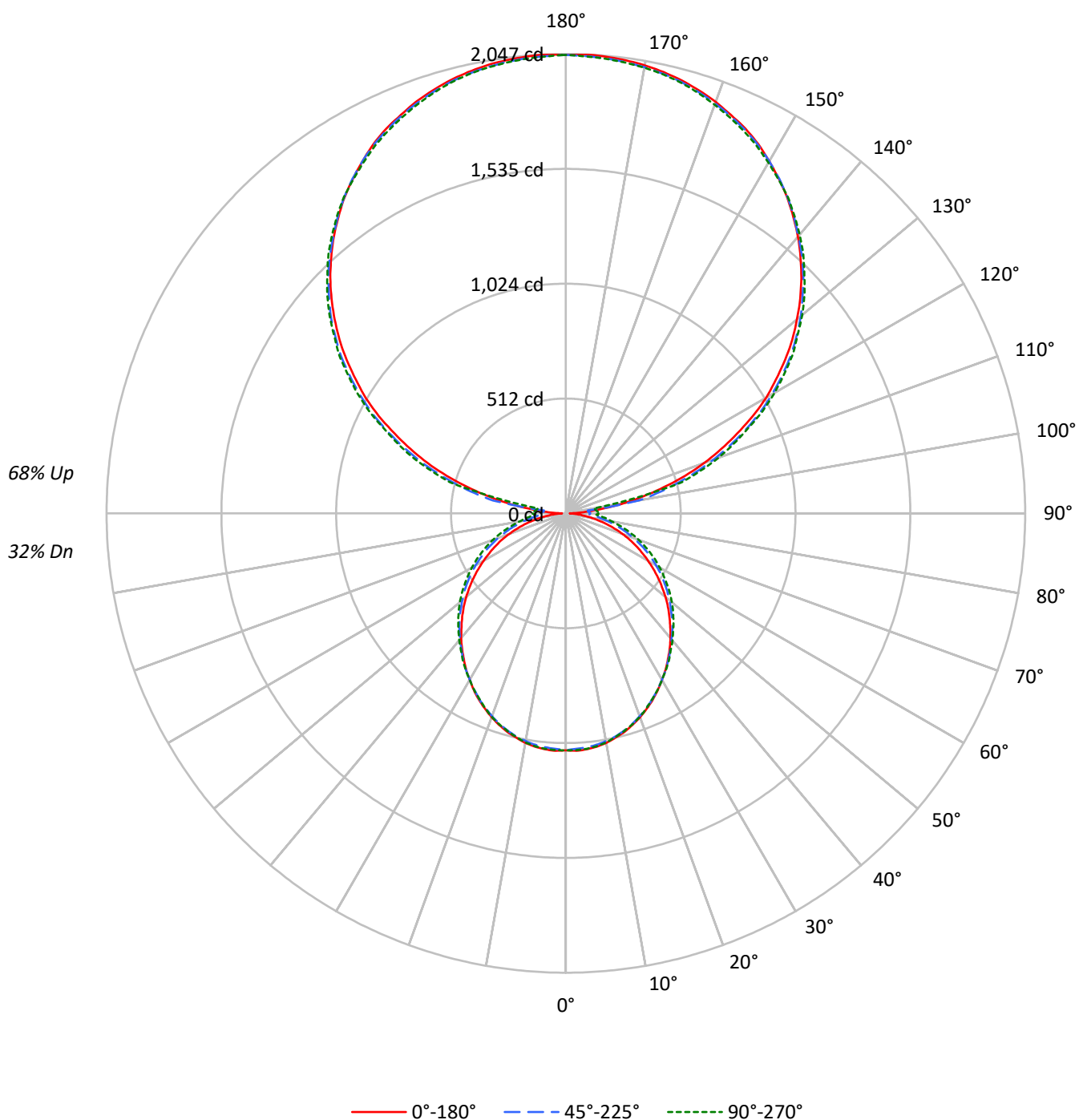
Lumens per Lamp: N/A
Luminaire Lumens: 9549.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	40	40	32
1	93	89	85	81	84	80	77	74	64	61	59	48	47	45	34	33	33	33	33	26
2	85	77	71	66	76	70	64	60	55	52	49	42	40	38	30	28	27	27	27	22
3	77	68	60	55	69	61	55	50	49	44	41	37	34	32	26	24	23	23	23	18
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	23	21	19	19	19	15
5	65	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17	17	17	13
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15	15	15	12
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13	13	13	10
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12	12	12	9
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10	10	10	8
10	44	32	25	20	39	29	23	19	24	19	16	18	15	13	14	11	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6765	6765	6765
5°	6776	6623	6639
10°	6725	6488	6470
15°	6644	6331	6261
20°	6533	6141	6054
25°	6402	5939	5803
30°	6244	5719	5575
35°	6096	5516	5365
40°	5945	5302	5152
45°	5774	5117	4963
50°	5611	4916	4791
55°	5415	4723	4591
60°	5200	4505	4386
65°	4976	4274	4156
70°	4719	3966	3916
75°	4313	3660	3623
80°	3781	3289	3298
85°	3253	2993	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.0
10°-20°	283.6	3.0
20°-30°	421.8	4.4
30°-40°	499.5	5.2
40°-50°	516.4	5.4
50°-60°	475.7	5.0
60°-70°	384.6	4.0
70°-80°	257.3	2.7
80°-90°	136.0	1.4
90°-100°	144.2	1.5
100°-110°	516.3	5.4
110°-120°	867.2	9.1
120°-130°	1086.6	11.4
130°-140°	1155.3	12.1
140°-150°	1077.5	11.3
150°-160°	870.1	9.1
160°-170°	562.7	5.9
170°-180°	194.1	2.0
0°-30°	805.4	8.4
0°-40°	1304.9	13.7
0°-60°	2297.1	24.1
0°-90°	3075.0	32.2
90°-120°	1527.7	16.0
90°-150°	4847.1	50.8
90°-180°	6474.0	67.8
0°-180°	9549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1047	1055	1054	100
15°	1008	1009	1002	1008	1004	284
25°	916	919	913	917	912	422
35°	793	800	797	800	800	496
45°	653	665	670	677	678	504
55°	502	519	535	547	551	449
65°	346	370	394	410	414	343
75°	190	217	250	271	276	202
85°	57	91	127	150	158	59
90°	18	63	109	140	152	16
95°	100	122	100	130	137	116
105°	454	477	508	529	535	482
115°	842	857	885	898	895	835
125°	1193	1202	1223	1234	1234	1065
135°	1485	1493	1497	1507	1503	1145
145°	1720	1722	1722	1728	1724	1075
155°	1893	1884	1887	1891	1879	872
165°	1997	1988	1990	1999	1987	564
175°	2043	2034	2035	2047	2034	195
180°	2043	2043	2043	2043	2043	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1059.0	1056.9	1049.7	1056.9	1055.9
5°	1055.9	1053.8	1046.6	1054.9	1053.8
7.5°	1048.7	1047.6	1040.4	1047.6	1046.6
10°	1038.3	1038.3	1030.0	1037.3	1036.2
12.5°	1023.8	1024.8	1018.6	1023.8	1020.7
15°	1008.3	1009.3	1002.1	1008.3	1004.1
17.5°	988.6	990.7	983.4	988.6	985.5
20°	966.9	968.9	961.7	964.8	964.8
22.5°	942.0	946.2	937.9	942.0	938.9
25°	916.2	919.3	913.0	917.2	912.0
27.5°	888.2	892.3	885.1	888.2	886.1
30°	856.1	862.3	856.1	858.2	857.1
32.5°	827.1	832.3	828.2	830.2	829.2
35°	793.0	800.2	797.1	800.2	800.2
37.5°	759.8	766.0	765.0	769.2	768.1
40°	725.7	734.0	732.9	737.1	739.1
42.5°	688.4	699.8	702.9	708.1	708.1
45°	653.2	664.6	669.8	677.0	678.1
47.5°	617.0	627.3	635.6	646.0	648.0
50°	579.7	591.1	602.5	613.9	617.0
52.5°	540.4	554.9	569.4	581.8	583.9
55°	502.1	518.6	535.2	546.6	550.7
57.5°	462.7	482.4	501.0	513.5	516.6
60°	423.4	444.1	464.8	480.3	483.4
62.5°	385.1	405.8	428.6	446.2	450.3
65°	345.8	369.6	394.4	409.9	414.1
67.5°	309.5	332.3	357.1	375.8	381.0
70°	269.2	293.0	319.9	339.5	345.8
72.5°	229.8	254.7	284.7	306.4	310.6
75°	190.5	217.4	250.5	271.2	276.4
77.5°	152.2	183.2	214.3	237.1	241.2
80°	117.0	148.0	183.2	206.0	210.1
82.5°	84.9	118.0	154.2	176.0	184.3
85°	56.9	91.1	127.3	150.1	158.4
87.5°	36.2	69.4	104.6	128.4	135.6
90°	18.1	63.3	109.1	140.5	152.2
92.5°	43.3	59.6	104.9	135.3	144.1
95°	99.8	122.2	99.8	130.1	137.4
97.5°	174.4	208.4	98.7	123.5	132.2
100°	264.3	290.5	329.8	125.9	126.0
102.5°	355.7	381.3	416.4	440.2	319.2
105°	454.5	477.2	508.2	528.9	534.6
107.5°	556.5	571.0	604.0	626.2	626.4
110°	655.3	667.8	699.8	714.9	723.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	749.2	763.1	792.6	805.1	809.4
115°	842.1	857.0	885.4	897.9	895.0
117.5°	939.5	944.7	976.6	985.1	989.4
120°	1030.4	1032.0	1060.3	1074.9	1073.5
122.5°	1109.5	1118.2	1142.5	1156.0	1153.1
125°	1192.8	1202.4	1223.1	1233.7	1234.2
127.5°	1272.1	1278.6	1294.7	1307.2	1301.3
130°	1344.8	1351.3	1367.3	1377.3	1374.8
132.5°	1416.4	1425.5	1431.3	1445.8	1442.4
135°	1484.6	1492.6	1496.8	1507.2	1503.3
137.5°	1548.2	1556.2	1557.3	1569.7	1566.3
140°	1609.2	1612.2	1611.8	1626.2	1621.2
142.5°	1665.2	1665.7	1668.7	1678.0	1673.2
145°	1719.7	1721.7	1721.7	1728.5	1723.5
147.5°	1767.2	1767.2	1768.7	1772.3	1763.7
150°	1812.6	1809.6	1812.6	1815.6	1804.5
152.5°	1856.5	1848.9	1852.0	1855.0	1844.4
155°	1892.9	1883.8	1886.8	1891.3	1879.2
157.5°	1921.6	1917.1	1917.1	1921.6	1909.5
160°	1951.9	1942.8	1944.3	1950.4	1938.3
162.5°	1976.1	1967.1	1968.6	1977.7	1964.0
165°	1997.3	1988.3	1989.8	1998.9	1986.7
167.5°	2014.0	2004.9	2006.4	2017.0	2003.4
170°	2027.6	2017.0	2018.5	2030.7	2017.0
172.5°	2036.7	2026.1	2029.1	2039.7	2026.1
175°	2042.8	2033.7	2035.2	2047.3	2033.7
177.5°	2047.3	2038.2	2039.7	2050.3	2038.2
180°	2042.8	2042.8	2042.8	2042.8	2042.8

(END OF REPORT)