

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: P1034655

Luminaire Tested: S125DIW-B850D1560UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034655
REPORT IS A COMBINATION OF REPORTS P1004196 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-F_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

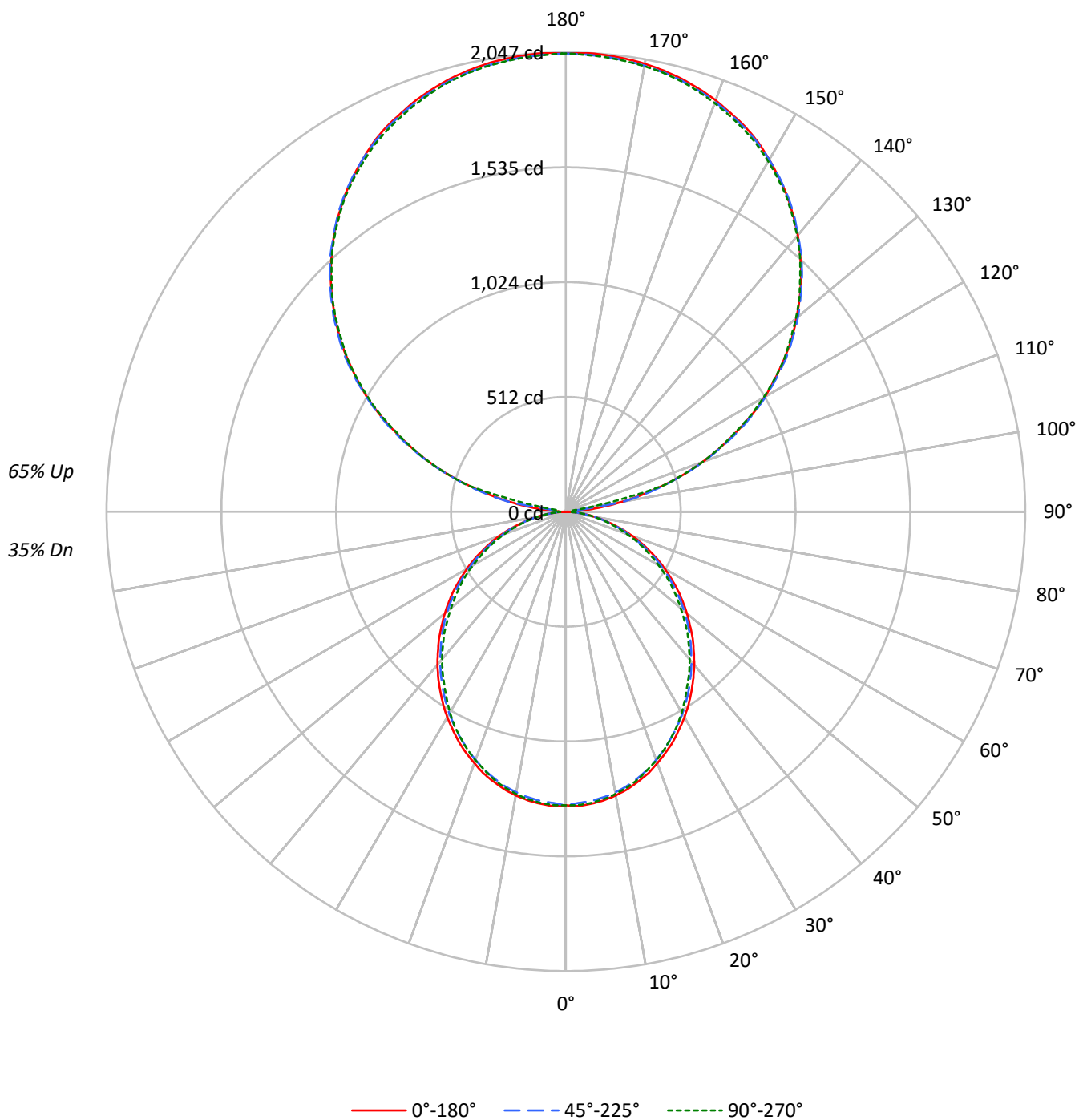
Lumens per Lamp: N/A
Luminaire Lumens: 9683.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	90	86	83	85	82	78	76	66	63	61	51	50	48	37	37	36
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30
3	78	69	62	56	71	63	57	52	51	46	43	40	36	34	29	27	26
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22
5	66	54	46	41	59	49	43	37	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8382	8382	8382
5°	8383	8187	8203
10°	8313	7999	7975
15°	8204	7775	7706
20°	8056	7515	7397
25°	7898	7231	7066
30°	7707	6935	6718
35°	7503	6625	6328
40°	7292	6297	5981
45°	7063	5978	5613
50°	6812	5616	5184
55°	6564	5216	4788
60°	6268	4794	4329
65°	5912	4307	3854
70°	5551	3746	3306
75°	4945	3084	2673
80°	4214	2304	1965
85°	3253	1364	1084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.3
10°-20°	348.7	3.6
20°-30°	514.8	5.3
30°-40°	600.6	6.2
40°-50°	603.2	6.2
50°-60°	529.5	5.5
60°-70°	394.4	4.1
70°-80°	225.2	2.3
80°-90°	68.1	0.7
90°-100°	69.3	0.7
100°-110°	461.0	4.8
110°-120°	830.2	8.6
120°-130°	1065.6	11.0
130°-140°	1146.1	11.8
140°-150°	1075.7	11.1
150°-160°	870.1	9.0
160°-170°	562.7	5.8
170°-180°	194.1	2.0
0°-30°	986.9	10.2
0°-40°	1587.5	16.4
0°-60°	2720.3	28.1
0°-90°	3408.0	35.2
90°-120°	1360.6	14.1
90°-150°	4648.1	48.0
90°-180°	6275.0	64.8
0°-180°	9683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1306	1304	1294	1303	1302	124
15°	1245	1242	1231	1236	1236	351
25°	1130	1125	1112	1114	1110	520
35°	976	972	957	952	944	611
45°	799	795	782	770	767	616
55°	609	606	591	582	574	543
65°	411	409	397	388	384	408
75°	218	216	211	208	204	232
85°	57	58	58	57	55	62
90°	2	14	24	32	36	8
95°	86	82	24	32	32	106
105°	445	451	451	451	450	472
115°	836	844	845	839	830	829
125°	1189	1199	1199	1193	1189	1062
135°	1482	1492	1488	1486	1476	1143
145°	1719	1722	1722	1723	1714	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°	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1312.4	1309.3	1298.9	1309.3	1308.2
5°	1306.2	1304.1	1293.7	1303.1	1302.0
7.5°	1296.8	1294.8	1283.4	1292.7	1291.7
10°	1283.4	1281.3	1269.9	1278.2	1277.2
12.5°	1266.8	1262.7	1252.3	1258.6	1258.6
15°	1245.1	1242.0	1230.6	1235.8	1235.8
17.5°	1222.3	1217.2	1205.8	1212.0	1206.8
20°	1192.3	1190.2	1176.8	1184.0	1178.9
22.5°	1162.3	1158.2	1145.7	1149.9	1146.8
25°	1130.2	1125.0	1111.6	1113.7	1110.5
27.5°	1093.0	1089.8	1076.4	1077.4	1074.3
30°	1056.7	1053.6	1038.1	1036.0	1032.9
32.5°	1017.4	1012.2	998.8	994.6	988.4
35°	976.0	971.9	957.4	952.2	943.9
37.5°	933.6	928.4	914.9	907.7	902.5
40°	890.1	884.9	870.4	861.1	858.0
42.5°	843.5	839.4	824.9	816.6	811.4
45°	799.0	794.9	782.5	770.0	766.9
47.5°	750.4	751.4	735.9	723.5	716.2
50°	703.8	700.7	688.3	674.8	667.6
52.5°	656.2	654.1	640.7	629.3	621.0
55°	608.6	605.5	591.0	581.7	574.4
57.5°	557.9	556.8	544.4	532.0	528.9
60°	510.3	506.1	494.7	484.4	477.1
62.5°	460.6	457.5	448.2	436.8	431.6
65°	410.9	408.8	397.4	388.1	384.0
67.5°	362.2	358.1	349.8	341.5	339.5
70°	316.7	311.5	302.2	296.0	291.9
72.5°	267.0	263.9	258.7	251.5	247.4
75°	218.4	216.3	211.1	208.0	203.9
77.5°	172.8	171.8	168.7	166.6	163.5
80°	130.4	130.4	128.3	127.3	125.2
82.5°	93.1	91.1	91.1	89.0	89.0
85°	56.9	58.0	58.0	56.9	54.9
87.5°	27.9	27.9	26.9	26.9	24.8
90°	1.5	13.6	24.2	31.8	36.3
92.5°	28.8	15.1	24.2	31.8	33.3
95°	86.3	81.8	24.2	31.8	31.8
97.5°	162.0	171.1	27.3	30.3	31.8
100°	252.9	257.4	263.5	37.9	31.8
102.5°	345.3	351.3	354.3	357.4	230.2
105°	445.2	451.3	451.3	451.3	449.7
107.5°	548.2	548.2	551.2	552.7	546.7
110°	648.1	648.1	651.1	646.6	648.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	742.0	746.5	748.1	742.0	739.0
115°	835.9	843.5	845.0	838.9	829.8
117.5°	934.3	934.3	940.4	931.3	928.3
120°	1025.2	1023.7	1028.2	1025.2	1017.6
122.5°	1105.4	1113.0	1114.5	1111.5	1102.4
125°	1188.7	1199.3	1199.3	1193.3	1188.7
127.5°	1269.0	1276.5	1275.0	1272.0	1259.9
130°	1341.7	1349.2	1350.7	1346.2	1338.6
132.5°	1414.3	1423.4	1418.9	1418.9	1411.3
135°	1482.5	1491.6	1488.5	1485.5	1476.4
137.5°	1546.1	1555.2	1552.1	1552.1	1544.6
140°	1608.2	1611.2	1609.7	1612.7	1603.6
142.5°	1664.2	1665.7	1668.7	1668.7	1659.7
145°	1718.7	1721.7	1721.7	1723.3	1714.2
147.5°	1767.2	1767.2	1768.7	1770.2	1759.6
150°	1812.6	1809.6	1812.6	1815.6	1803.5
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)