

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: P1035594

Luminaire Tested: S125DIW-B850D1560UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035594
REPORT IS A COMBINATION OF REPORTS P1004207 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1560UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

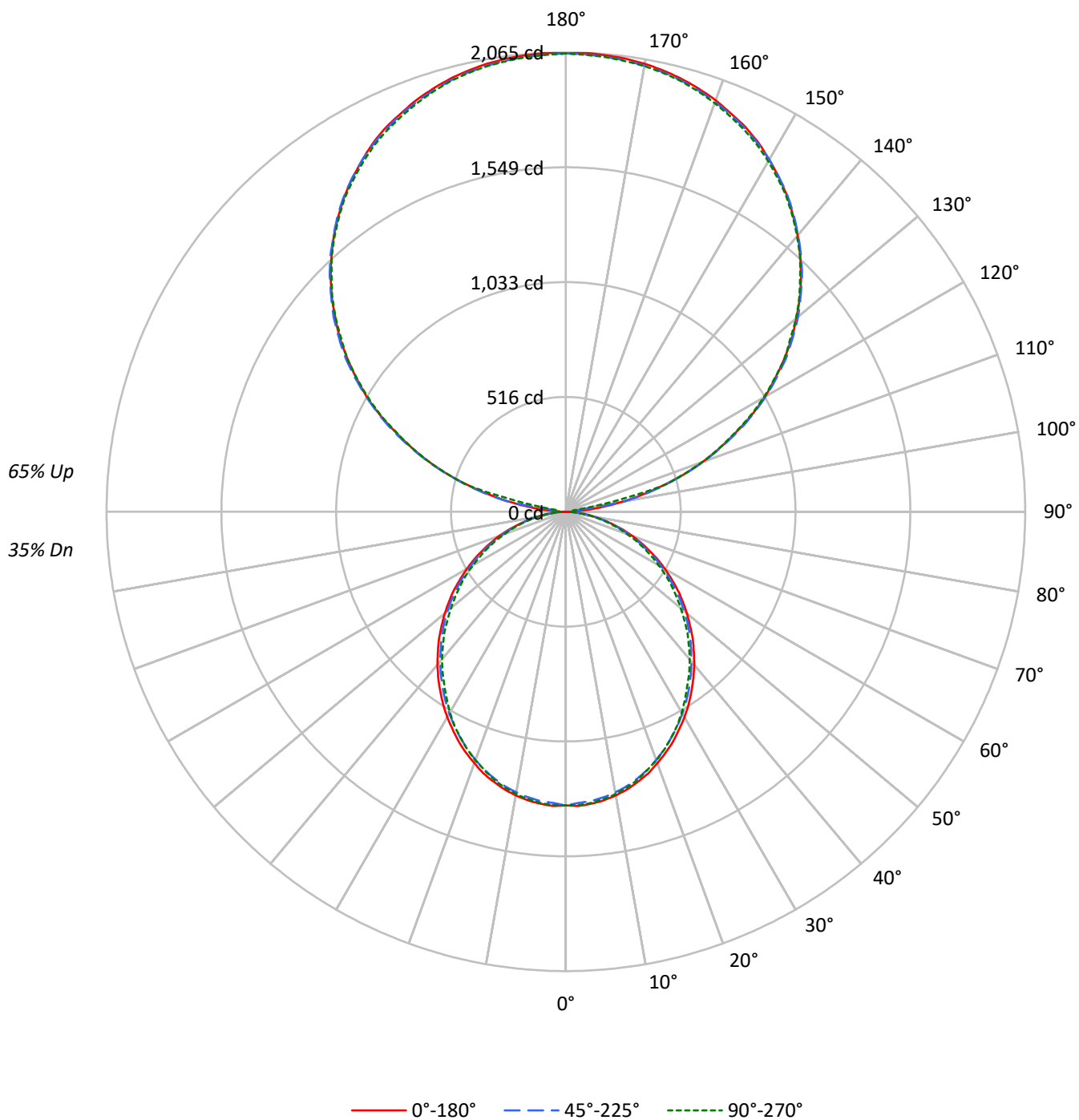
Lumens per Lamp: N/A
Luminaire Lumens: 9767.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	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	35		
1	94	90	86	83	85	82	78	76	66	63	61	51	50	48	37	37	36	30		
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	25		
3	78	69	62	56	71	63	57	52	51	46	43	40	36	34	29	27	26	21		
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22	18		
5	66	54	46	41	59	49	43	37	40	35	31	31	28	25	23	21	19	16		
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14		
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15	12		
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11		
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10		
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8456	8456	8456
5°	8456	8259	8275
10°	8386	8070	8045
15°	8276	7843	7774
20°	8127	7581	7462
25°	7968	7295	7128
30°	7774	6996	6777
35°	7569	6683	6384
40°	7356	6353	6034
45°	7126	6030	5662
50°	6872	5665	5229
55°	6621	5262	4831
60°	6322	4837	4367
65°	5964	4345	3888
70°	5601	3780	3334
75°	4988	3112	2696
80°	4253	2325	1983
85°	3282	1376	1092

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7126 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.3
10°-20°	351.8	3.6
20°-30°	519.3	5.3
30°-40°	605.9	6.2
40°-50°	608.5	6.2
50°-60°	534.2	5.5
60°-70°	397.9	4.1
70°-80°	227.2	2.3
80°-90°	68.7	0.7
90°-100°	69.9	0.7
100°-110°	465.0	4.8
110°-120°	837.4	8.6
120°-130°	1074.8	11.0
130°-140°	1156.0	11.8
140°-150°	1084.9	11.1
150°-160°	877.6	9.0
160°-170°	567.6	5.8
170°-180°	195.7	2.0
0°-30°	995.6	10.2
0°-40°	1601.5	16.4
0°-60°	2744.3	28.1
0°-90°	3438.1	35.2
90°-120°	1372.3	14.1
90°-150°	4688.0	48.0
90°-180°	6329.0	64.8
0°-180°	9767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1316	1305	1314	1314	125
15°	1256	1253	1241	1247	1247	354
25°	1140	1135	1121	1124	1120	525
35°	985	980	966	961	952	616
45°	806	802	789	777	774	621
55°	614	611	596	587	580	548
65°	414	412	401	392	387	411
75°	220	218	213	210	206	235
85°	57	58	58	57	55	63
90°	2	14	24	32	37	8
95°	87	82	24	32	32	107
105°	449	455	455	455	454	476
115°	843	851	852	846	837	836
125°	1199	1210	1210	1204	1199	1071
135°	1495	1504	1501	1498	1489	1153
145°	1734	1737	1737	1738	1729	1084
155°	1909	1900	1903	1908	1895	880
165°	2014	2005	2007	2016	2004	569
175°	2060	2051	2053	2065	2051	196
180°	2060	2060	2060	2060	2060	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.8	1319.8	1319.8	1319.8	1319.8
2.5°	1323.9	1320.8	1310.4	1320.8	1319.8
5°	1317.7	1315.6	1305.1	1314.5	1313.5
7.5°	1308.3	1306.2	1294.7	1304.1	1303.1
10°	1294.7	1292.6	1281.1	1289.5	1288.4
12.5°	1278.0	1273.8	1263.4	1269.6	1269.6
15°	1256.1	1252.9	1241.4	1246.7	1246.7
17.5°	1233.1	1227.9	1216.4	1222.7	1217.4
20°	1202.8	1200.7	1187.2	1194.5	1189.2
22.5°	1172.5	1168.4	1155.8	1160.0	1156.9
25°	1140.2	1134.9	1121.4	1123.5	1120.3
27.5°	1102.6	1099.4	1085.9	1086.9	1083.8
30°	1066.0	1062.9	1047.2	1045.2	1042.0
32.5°	1026.4	1021.1	1007.6	1003.4	997.1
35°	984.6	980.4	965.8	960.6	952.2
37.5°	941.8	936.6	923.0	915.7	910.5
40°	897.9	892.7	878.1	868.7	865.6
42.5°	851.0	846.8	832.2	823.8	818.6
45°	806.1	801.9	789.3	776.8	773.7
47.5°	757.0	758.0	742.4	729.8	722.5
50°	710.0	706.9	694.3	680.8	673.5
52.5°	662.0	659.9	646.3	634.8	626.5
55°	613.9	610.8	596.2	586.8	579.5
57.5°	562.8	561.7	549.2	536.7	533.5
60°	514.7	510.6	499.1	488.6	481.3
62.5°	464.6	461.5	452.1	440.6	435.4
65°	414.5	412.4	400.9	391.5	387.4
67.5°	365.4	361.3	352.9	344.6	342.5
70°	319.5	314.3	304.9	298.6	294.4
72.5°	269.4	266.2	261.0	253.7	249.5
75°	220.3	218.2	213.0	209.9	205.7
77.5°	174.4	173.3	170.2	168.1	165.0
80°	131.6	131.6	129.5	128.4	126.3
82.5°	94.0	91.9	91.9	89.8	89.8
85°	57.4	58.5	58.5	57.4	55.3
87.5°	28.2	28.2	27.1	27.1	25.1
90°	1.5	13.7	24.4	32.1	36.7
92.5°	29.0	15.3	24.4	32.1	33.6
95°	87.1	82.5	24.4	32.1	32.1
97.5°	163.4	172.6	27.5	30.5	32.1
100°	255.1	259.6	265.8	38.2	32.1
102.5°	348.2	354.3	357.4	360.4	232.2
105°	449.0	455.1	455.1	455.1	453.6
107.5°	552.9	552.9	555.9	557.5	551.4
110°	653.7	653.7	656.7	652.2	653.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	748.4	753.0	754.5	748.4	745.3
115°	843.1	850.7	852.2	846.1	837.0
117.5°	942.4	942.4	948.5	939.3	936.2
120°	1034.0	1032.5	1037.0	1034.0	1026.4
122.5°	1114.9	1122.6	1124.1	1121.0	1111.9
125°	1198.9	1209.6	1209.6	1203.5	1198.9
127.5°	1279.9	1287.5	1286.0	1282.9	1270.7
130°	1353.2	1360.8	1362.4	1357.8	1350.1
132.5°	1426.5	1435.7	1431.1	1431.1	1423.5
135°	1495.2	1504.4	1501.3	1498.3	1489.1
137.5°	1559.4	1568.6	1565.5	1565.5	1557.9
140°	1622.0	1625.1	1623.5	1626.6	1617.4
142.5°	1678.5	1680.0	1683.1	1683.1	1673.9
145°	1733.5	1736.6	1736.6	1738.1	1728.9
147.5°	1782.4	1782.4	1783.9	1785.4	1774.7
150°	1828.2	1825.1	1828.2	1831.2	1819.0
152.5°	1872.5	1864.8	1867.9	1871.0	1860.3
155°	1909.1	1900.0	1903.0	1907.6	1895.4
157.5°	1938.2	1933.6	1933.6	1938.2	1925.9
160°	1968.7	1959.5	1961.1	1967.2	1955.0
162.5°	1993.1	1984.0	1985.5	1994.7	1980.9
165°	2014.5	2005.4	2006.9	2016.1	2003.8
167.5°	2031.3	2022.2	2023.7	2034.4	2020.6
170°	2045.1	2034.4	2035.9	2048.1	2034.4
172.5°	2054.2	2043.5	2046.6	2057.3	2043.5
175°	2060.3	2051.2	2052.7	2064.9	2051.2
177.5°	2064.9	2055.8	2057.3	2068.0	2055.8
180°	2060.3	2060.3	2060.3	2060.3	2060.3

(END OF REPORT)