

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: P1035565

Luminaire Tested: S125DIW-B850D1340UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035565
REPORT IS A COMBINATION OF REPORTS P1004138 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1340UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

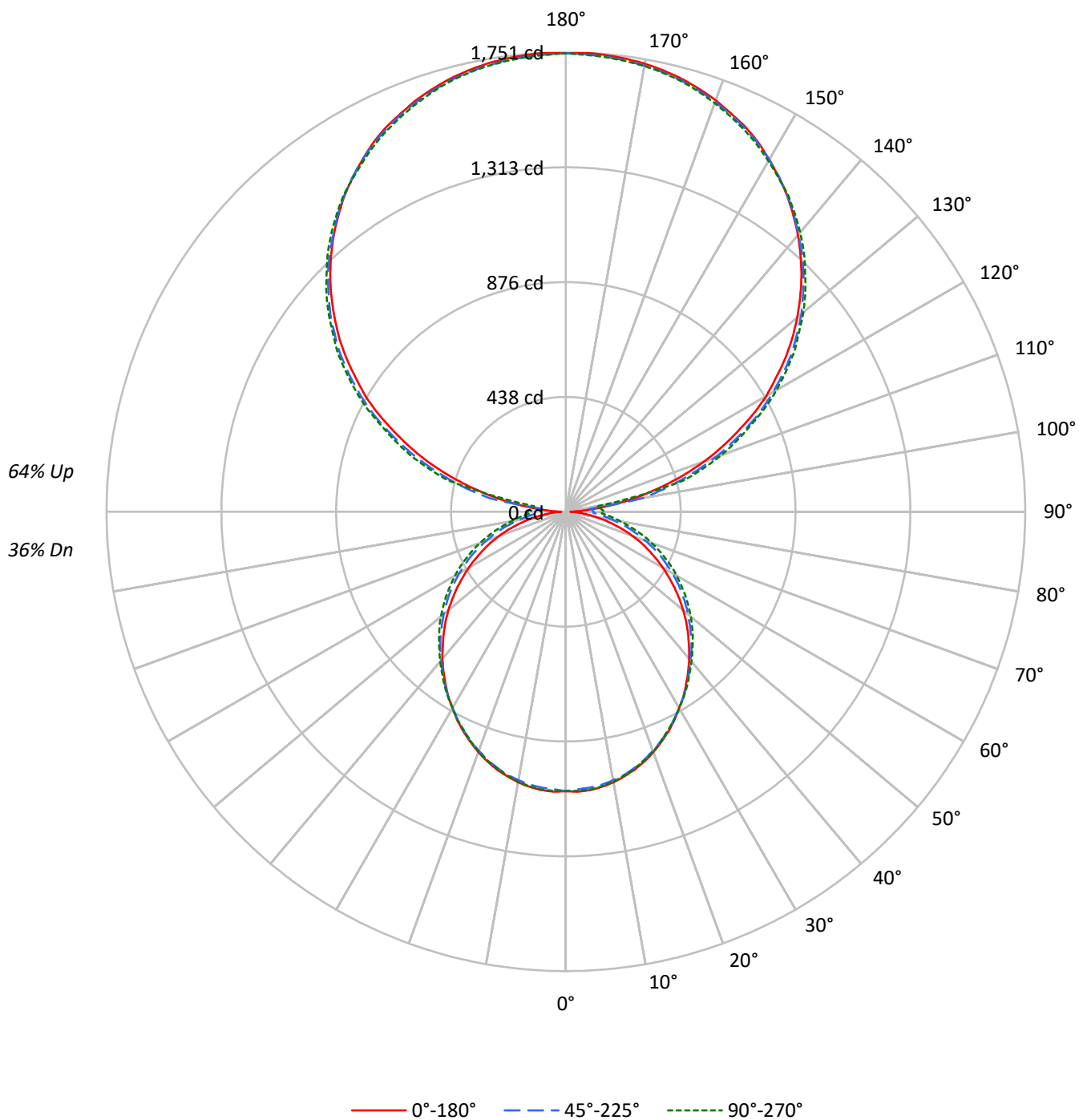
Lumens per Lamp: N/A
Luminaire Lumens: 8669.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	59	59	59	43	43	43
1	94	90	86	82	85	81	78	75	65	63	61	51	49	48	37	36	35
2	85	78	72	66	77	71	65	61	57	53	50	44	42	39	32	31	29
3	78	68	61	55	70	62	56	50	50	45	42	39	36	33	29	26	25
4	71	60	52	46	64	55	48	43	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	44	36	31	35	30	26	28	24	21	21	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	36	29	24	29	24	20	23	19	16	17	15	13
9	48	35	28	23	43	32	26	21	27	22	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°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.2
10°-20°	286.1	3.3
20°-30°	425.4	4.9
30°-40°	503.8	5.8
40°-50°	520.9	6.0
50°-60°	479.8	5.5
60°-70°	387.9	4.5
70°-80°	259.5	3.0
80°-90°	136.7	1.6
90°-100°	134.9	1.6
100°-110°	450.1	5.2
110°-120°	747.4	8.6
120°-130°	932.6	10.8
130°-140°	989.6	11.4
140°-150°	921.9	10.6
150°-160°	744.3	8.6
160°-170°	481.3	5.6
170°-180°	166.0	1.9
0°-30°	812.3	9.4
0°-40°	1316.1	15.2
0°-60°	2316.7	26.7
0°-90°	3100.9	35.8
90°-120°	1332.4	15.4
90°-150°	4176.5	48.2
90°-180°	5568.0	64.2
0°-180°	8669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	18	62	106	137	148	15
95°	87	111	97	126	134	101
105°	390	412	443	464	470	413
115°	721	735	764	777	776	715
125°	1021	1029	1050	1061	1063	912
135°	1270	1277	1282	1293	1290	979
145°	1471	1473	1473	1479	1476	920
155°	1619	1611	1614	1618	1607	746
165°	1708	1701	1702	1710	1699	483
175°	1747	1740	1741	1751	1740	166
180°	1747	1747	1747	1747	1747	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	18.0	61.8	106.3	136.8	148.0
92.5°	39.2	57.9	102.1	131.6	140.2
95°	87.4	110.6	96.9	126.4	133.7
97.5°	151.1	184.0	95.3	119.9	128.5
100°	227.8	253.6	292.2	121.1	122.2
102.5°	305.7	330.8	365.7	389.2	286.7
105°	390.2	412.1	443.4	464.3	470.3
107.5°	477.3	491.9	524.7	546.9	548.0
110°	561.7	574.2	606.1	622.0	630.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	642.0	655.3	684.8	698.4	703.1
115°	721.3	735.1	763.5	777.1	775.6
117.5°	804.4	809.6	840.9	850.9	855.6
120°	882.1	884.0	911.9	927.0	926.8
122.5°	949.7	957.2	981.5	995.6	994.2
125°	1021.0	1029.0	1049.9	1061.4	1062.7
127.5°	1088.5	1094.0	1110.4	1123.5	1119.5
130°	1150.7	1156.2	1172.1	1182.8	1181.5
132.5°	1211.9	1219.7	1226.2	1240.8	1238.5
135°	1270.2	1276.8	1281.7	1292.6	1290.0
137.5°	1324.6	1331.2	1332.9	1345.4	1343.1
140°	1376.6	1379.2	1379.0	1393.1	1389.4
142.5°	1424.5	1424.8	1427.4	1436.8	1433.2
145°	1471.1	1472.7	1472.7	1479.2	1475.6
147.5°	1511.6	1511.6	1512.9	1516.3	1509.3
150°	1550.4	1547.9	1550.4	1553.0	1543.7
152.5°	1588.0	1581.5	1584.1	1586.7	1577.6
155°	1619.1	1611.3	1613.9	1617.8	1607.4
157.5°	1643.7	1639.8	1639.8	1643.7	1633.3
160°	1669.6	1661.8	1663.1	1668.3	1657.9
162.5°	1690.3	1682.6	1683.9	1691.6	1680.0
165°	1708.5	1700.7	1702.0	1709.8	1699.4
167.5°	1722.7	1714.9	1716.2	1725.3	1713.6
170°	1734.4	1725.3	1726.6	1737.0	1725.3
172.5°	1742.1	1733.1	1735.7	1744.7	1733.1
175°	1747.3	1739.6	1740.8	1751.2	1739.6
177.5°	1751.2	1743.4	1744.7	1753.8	1743.4
180°	1747.3	1747.3	1747.3	1747.3	1747.3

(END OF REPORT)