

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: P1035595

Luminaire Tested: S125DIW-B850D1560UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035595
REPORT IS A COMBINATION OF REPORTS P1004208 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-F1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

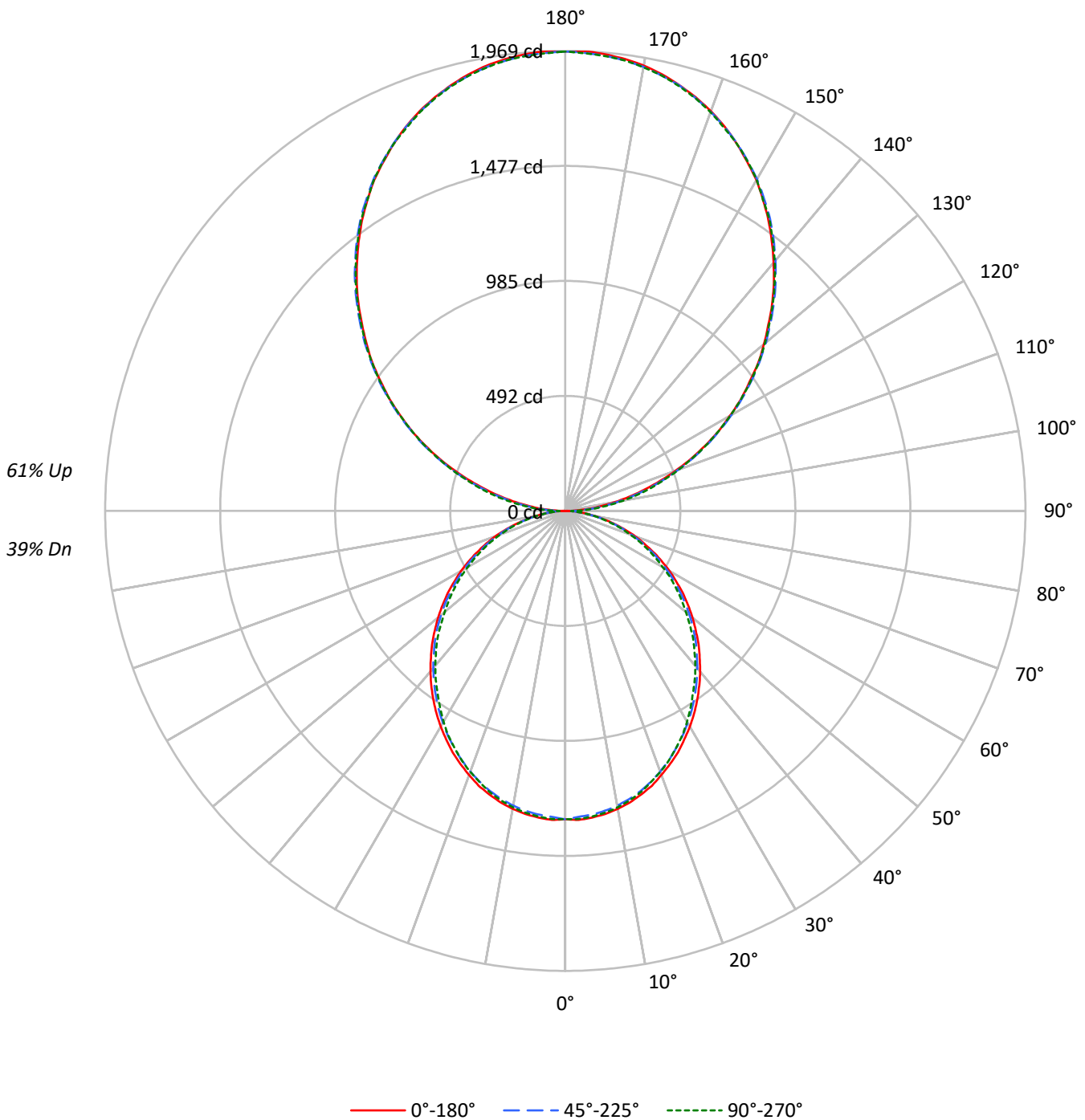
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8926.0 lumens
Efficiency: N/A
Efficacy: 101.3 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 (A_{in}): 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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39			
1	95	91	87	84	86	83	79	76	67	65	63	53	52	50	40	39	38	32			
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27			
3	79	70	62	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23			
4	72	62	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20			
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17			
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15			
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16	13			
8	52	40	32	27	47	37	30	25	30	25	22	25	21	18	19	16	14	12			
9	48	36	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11			
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10			

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	1.4
10°-20°	351.8	3.9
20°-30°	519.3	5.8
30°-40°	605.9	6.8
40°-50°	608.5	6.8
50°-60°	534.2	6.0
60°-70°	397.9	4.5
70°-80°	227.2	2.5
80°-90°	68.7	0.8
90°-100°	130.8	1.5
100°-110°	388.4	4.4
110°-120°	658.8	7.4
120°-130°	867.3	9.7
130°-140°	971.8	10.9
140°-150°	952.6	10.7
150°-160°	800.2	9.0
160°-170°	531.9	6.0
170°-180°	186.1	2.1
0°-30°	995.6	11.2
0°-40°	1601.5	17.9
0°-60°	2744.3	30.7
0°-90°	3438.1	38.5
90°-120°	1178.0	13.2
90°-150°	3969.7	44.5
90°-180°	5488.0	61.5
0°-180°	8926.0	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	11
95°	100	102	118	128	132	104
105°	349	356	366	375	380	372
115°	660	666	669	667	666	652
125°	962	972	973	970	969	862
135°	1252	1261	1262	1262	1256	965
145°	1516	1523	1527	1527	1523	948
155°	1735	1735	1737	1743	1735	799
165°	1887	1884	1885	1891	1882	532
175°	1962	1956	1956	1965	1954	186
180°	1966	1966	1966	1966	1966	



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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	13.8	24.5	32.1	36.7
92.5°	45.9	53.6	67.3	78.0	81.1
95°	99.5	102.5	117.8	128.5	131.6
97.5°	153.0	154.6	176.0	185.2	186.7
100°	214.2	214.2	234.1	247.9	251.0
102.5°	280.0	287.7	295.3	310.6	315.2
105°	348.9	356.5	365.7	374.9	379.5
107.5°	423.9	431.5	439.2	443.8	443.8
110°	501.9	509.6	514.2	518.8	517.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.5	584.6	590.7	592.2	589.1
115°	659.5	665.7	668.7	667.2	665.7
117.5°	739.1	740.6	743.7	745.2	739.1
120°	812.6	820.2	821.7	821.7	815.6
122.5°	892.1	893.7	898.2	896.7	892.1
125°	962.5	971.7	973.2	970.2	968.6
127.5°	1040.6	1045.2	1046.7	1045.2	1042.1
130°	1109.4	1117.1	1120.1	1118.6	1115.5
132.5°	1178.3	1192.1	1190.5	1189.0	1184.4
135°	1251.7	1260.9	1262.4	1262.4	1256.3
137.5°	1320.6	1329.8	1332.8	1334.4	1326.7
140°	1386.4	1394.0	1398.6	1401.7	1394.0
142.5°	1452.2	1458.3	1464.4	1466.0	1458.3
145°	1516.5	1522.6	1527.2	1527.2	1522.6
147.5°	1576.1	1580.7	1583.8	1588.4	1576.1
150°	1635.8	1634.3	1640.4	1640.4	1637.4
152.5°	1684.8	1687.9	1689.4	1694.0	1687.9
155°	1735.3	1735.3	1736.8	1742.9	1735.3
157.5°	1781.2	1778.1	1779.7	1785.8	1775.1
160°	1821.0	1816.4	1817.9	1824.0	1816.4
162.5°	1856.2	1853.1	1853.1	1860.8	1851.6
165°	1886.8	1883.7	1885.3	1891.4	1882.2
167.5°	1914.3	1908.2	1908.2	1917.4	1908.2
170°	1935.8	1929.6	1929.6	1938.8	1928.1
172.5°	1951.1	1944.9	1944.9	1954.1	1944.9
175°	1961.8	1955.6	1955.6	1964.8	1954.1
177.5°	1969.4	1963.3	1961.8	1970.9	1960.2
180°	1966.4	1966.4	1966.4	1966.4	1966.4

(END OF REPORT)