

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: P1035158

Luminaire Tested: S125DIW-B1270D1560UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035158
REPORT IS A COMBINATION OF REPORTS P1003224 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1560UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

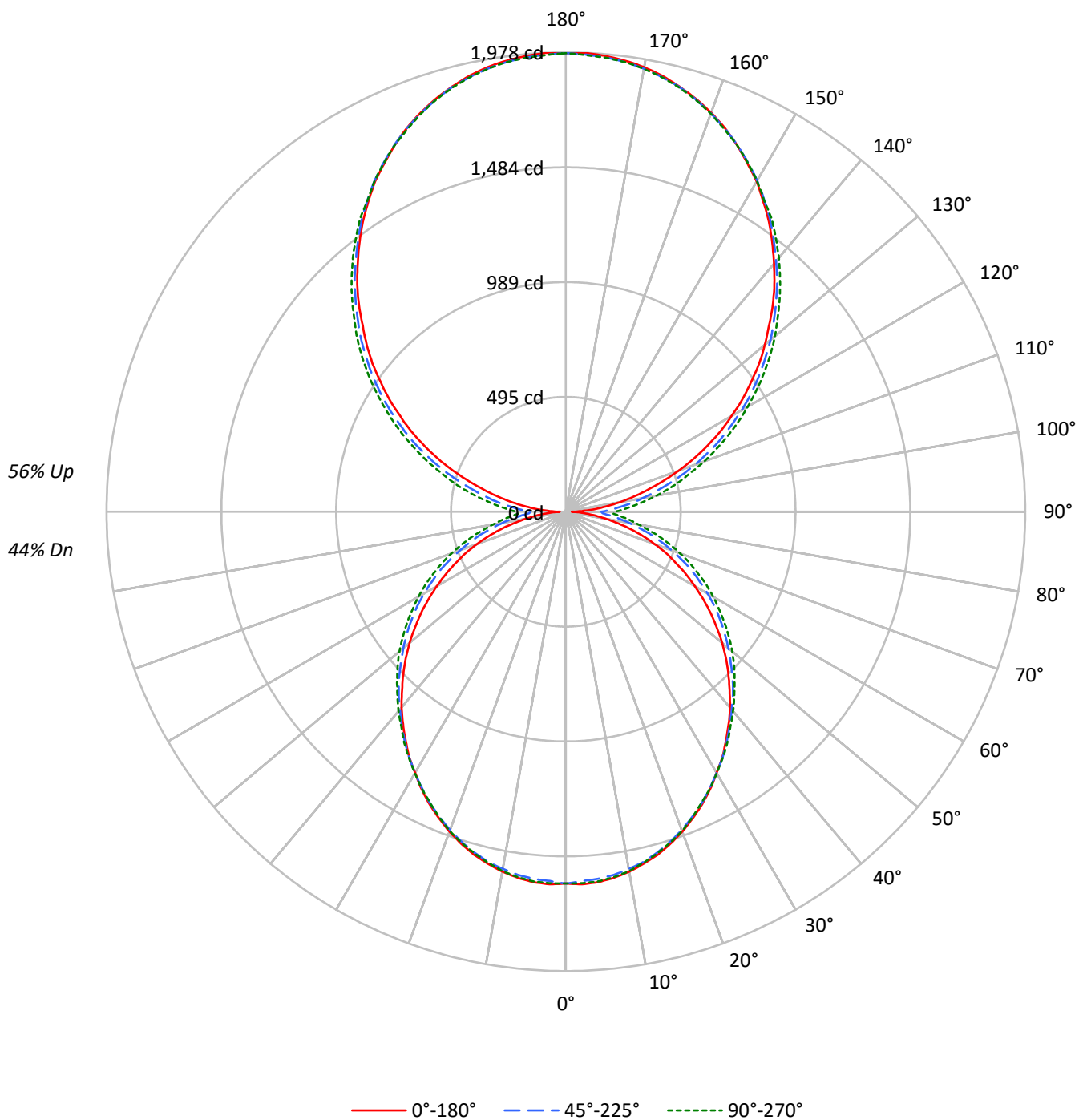
Lumens per Lamp: N/A
Luminaire Lumens: 10474.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80		65	65	65		51
1	96	91	87	83	88	84	80	77	69	67	64		56	54	53		44
2	87	79	73	68	79	73	67	63	60	56	53		49	46	44		38
3	79	70	62	56	72	64	57	52	53	48	44		43	40	37		34
4	72	61	53	47	66	56	49	44	47	42	37		38	34	31		30
5	66	55	46	40	60	50	43	37	42	36	32		34	30	27		27
6	61	49	41	35	56	45	38	32	38	32	28		31	27	23		24
7	56	44	36	30	51	41	33	28	34	29	24		28	24	21		22
8	52	40	32	27	48	37	30	25	31	26	22		26	21	18		20
9	49	36	29	24	44	34	27	22	28	23	19		23	19	16		19
10	45	33	26	21	41	31	24	20	26	21	17		22	18	15		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.4
10°-20°	430.0	4.1
20°-30°	639.5	6.1
30°-40°	757.3	7.2
40°-50°	782.9	7.5
50°-60°	721.2	6.9
60°-70°	583.0	5.6
70°-80°	390.1	3.7
80°-90°	204.7	2.0
90°-100°	244.9	2.3
100°-110°	473.9	4.5
110°-120°	717.7	6.9
120°-130°	902.8	8.6
130°-140°	990.0	9.5
140°-150°	959.5	9.2
150°-160°	803.7	7.7
160°-170°	534.2	5.1
170°-180°	186.9	1.8
0°-30°	1221.0	11.7
0°-40°	1978.3	18.9
0°-60°	3482.4	33.2
0°-90°	4660.3	44.5
90°-120°	1436.5	13.7
90°-150°	4288.8	40.9
90°-180°	5814.0	55.5
0°-180°	10474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	27	89	153	197	213	24
95°	120	164	233	278	292	121
105°	364	397	454	494	510	389
115°	672	689	733	760	768	665
125°	973	981	1014	1036	1042	871
135°	1260	1268	1281	1301	1303	971
145°	1525	1529	1534	1542	1543	953
155°	1743	1743	1744	1751	1743	803
165°	1895	1892	1894	1900	1890	535
175°	1970	1964	1964	1973	1963	187
180°	1975	1975	1975	1975	1975	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	26.6	89.1	153.3	197.1	212.7
92.5°	68.1	121.3	190.0	235.3	249.4
95°	120.3	164.2	232.9	278.2	292.3
97.5°	172.5	211.7	285.0	327.2	339.7
100°	232.5	265.4	335.5	382.4	394.9
102.5°	297.0	334.4	390.8	437.6	451.6
105°	364.5	397.3	453.6	494.2	509.9
107.5°	438.3	467.9	521.1	557.1	566.5
110°	515.1	541.6	590.2	624.6	634.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	595.0	612.2	660.8	690.5	698.4
115°	671.8	689.0	732.8	759.6	767.5
117.5°	750.1	759.6	801.8	830.1	834.9
120°	823.9	836.4	874.0	900.6	903.9
122.5°	902.3	905.4	944.6	968.1	972.9
125°	973.0	980.6	1013.6	1035.6	1042.0
127.5°	1049.8	1052.8	1081.1	1103.1	1109.4
130°	1119.0	1125.1	1150.1	1170.6	1175.3
132.5°	1186.5	1200.4	1214.5	1235.0	1236.7
135°	1260.3	1268.0	1280.6	1301.0	1302.6
137.5°	1329.5	1337.2	1346.5	1366.9	1365.5
140°	1394.1	1401.7	1407.9	1428.2	1426.8
142.5°	1460.1	1464.7	1470.8	1486.5	1485.1
145°	1524.7	1529.2	1533.9	1541.7	1543.3
147.5°	1583.0	1587.6	1590.7	1598.4	1589.3
150°	1643.0	1641.4	1647.6	1647.6	1646.1
152.5°	1692.2	1695.2	1696.8	1701.4	1695.2
155°	1742.9	1742.9	1744.4	1750.6	1742.9
157.5°	1789.0	1785.9	1787.4	1793.6	1782.8
160°	1828.9	1824.3	1825.9	1832.0	1824.3
162.5°	1864.3	1861.2	1861.2	1868.9	1859.7
165°	1895.0	1892.0	1893.5	1899.6	1890.4
167.5°	1922.7	1916.5	1916.5	1925.8	1916.5
170°	1944.2	1938.1	1938.1	1947.3	1936.5
172.5°	1959.6	1953.4	1953.4	1962.7	1953.4
175°	1970.3	1964.2	1964.2	1973.4	1962.7
177.5°	1978.0	1971.9	1970.3	1979.6	1968.8
180°	1974.9	1974.9	1974.9	1974.9	1974.9

(END OF REPORT)