

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: P1035439

Luminaire Tested: S125DIW-B610D1560UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035439
REPORT IS A COMBINATION OF REPORTS P1003844 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

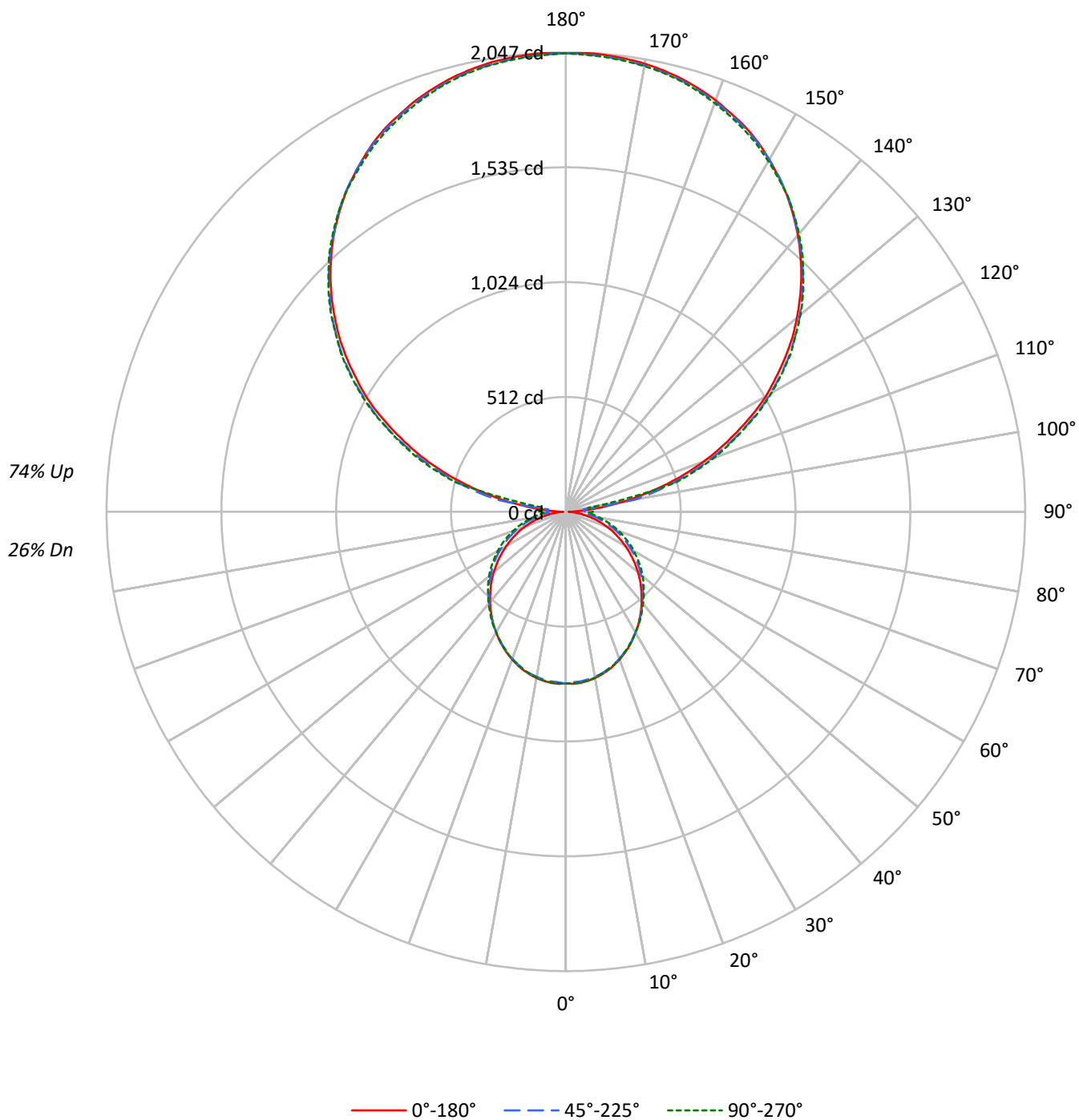
Lumens per Lamp: N/A
Luminaire Lumens: 8648.1 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	84	80	82	78	75	72	60	58	56	44	43	42	29	28	28
2	84	76	70	65	74	68	63	59	53	49	46	39	36	34	26	24	23
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	21	19
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	14
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	11	10
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	12	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4184 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	0.8
10°-20°	205.5	2.4
20°-30°	305.6	3.5
30°-40°	361.9	4.2
40°-50°	374.2	4.3
50°-60°	344.7	4.0
60°-70°	278.7	3.2
70°-80°	186.5	2.2
80°-90°	99.4	1.1
90°-100°	123.6	1.4
100°-110°	501.1	5.8
110°-120°	857.0	9.9
120°-130°	1080.8	12.5
130°-140°	1152.8	13.3
140°-150°	1077.0	12.5
150°-160°	870.1	10.1
160°-170°	562.7	6.5
170°-180°	194.1	2.2
0°-30°	583.5	6.7
0°-40°	945.4	10.9
0°-60°	1664.3	19.2
0°-90°	2228.8	25.8
90°-120°	1481.8	17.1
90°-150°	4792.4	55.4
90°-180°	6419.0	74.2
0°-180°	8648.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	14	50	86	111	120	13
95°	96	111	79	103	108	113
105°	452	470	493	508	511	479
115°	840	853	874	882	877	833
125°	1192	1202	1217	1223	1222	1064
135°	1484	1492	1494	1501	1496	1144
145°	1720	1722	1722	1727	1721	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°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	13.5	49.6	85.7	110.6	120.3
92.5°	39.3	47.4	82.7	106.8	113.6
95°	96.1	111.1	79.0	103.1	108.3
97.5°	171.0	198.1	79.1	97.8	104.6
100°	261.2	281.4	311.5	101.7	100.1
102.5°	352.8	373.1	399.3	417.4	294.7
105°	452.0	470.1	492.6	507.6	511.2
107.5°	554.2	564.7	589.5	606.0	604.5
110°	653.4	662.4	686.4	696.1	702.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	747.3	758.5	780.4	787.8	790.0
115°	840.4	853.3	874.3	881.7	877.1
117.5°	938.1	941.8	966.7	970.3	972.6
120°	1029.0	1029.7	1051.5	1061.2	1058.1
122.5°	1108.4	1116.8	1134.8	1143.8	1139.2
125°	1191.7	1201.6	1216.6	1222.6	1221.7
127.5°	1271.3	1278.0	1289.3	1297.5	1289.9
130°	1344.0	1350.7	1362.7	1368.7	1364.9
132.5°	1415.8	1424.9	1427.9	1438.4	1433.8
135°	1484.0	1492.4	1494.5	1501.3	1495.9
137.5°	1547.6	1556.0	1555.9	1564.9	1560.4
140°	1609.0	1612.0	1611.2	1622.5	1616.4
142.5°	1665.0	1665.7	1668.7	1675.5	1669.5
145°	1719.5	1721.7	1721.7	1727.1	1721.0
147.5°	1767.2	1767.2	1768.7	1771.7	1762.6
150°	1812.6	1809.6	1812.6	1815.6	1804.3
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)