

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: P1035440

Luminaire Tested: S125DIW-B610D1560UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035440
REPORT IS A COMBINATION OF REPORTS P1003845 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-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

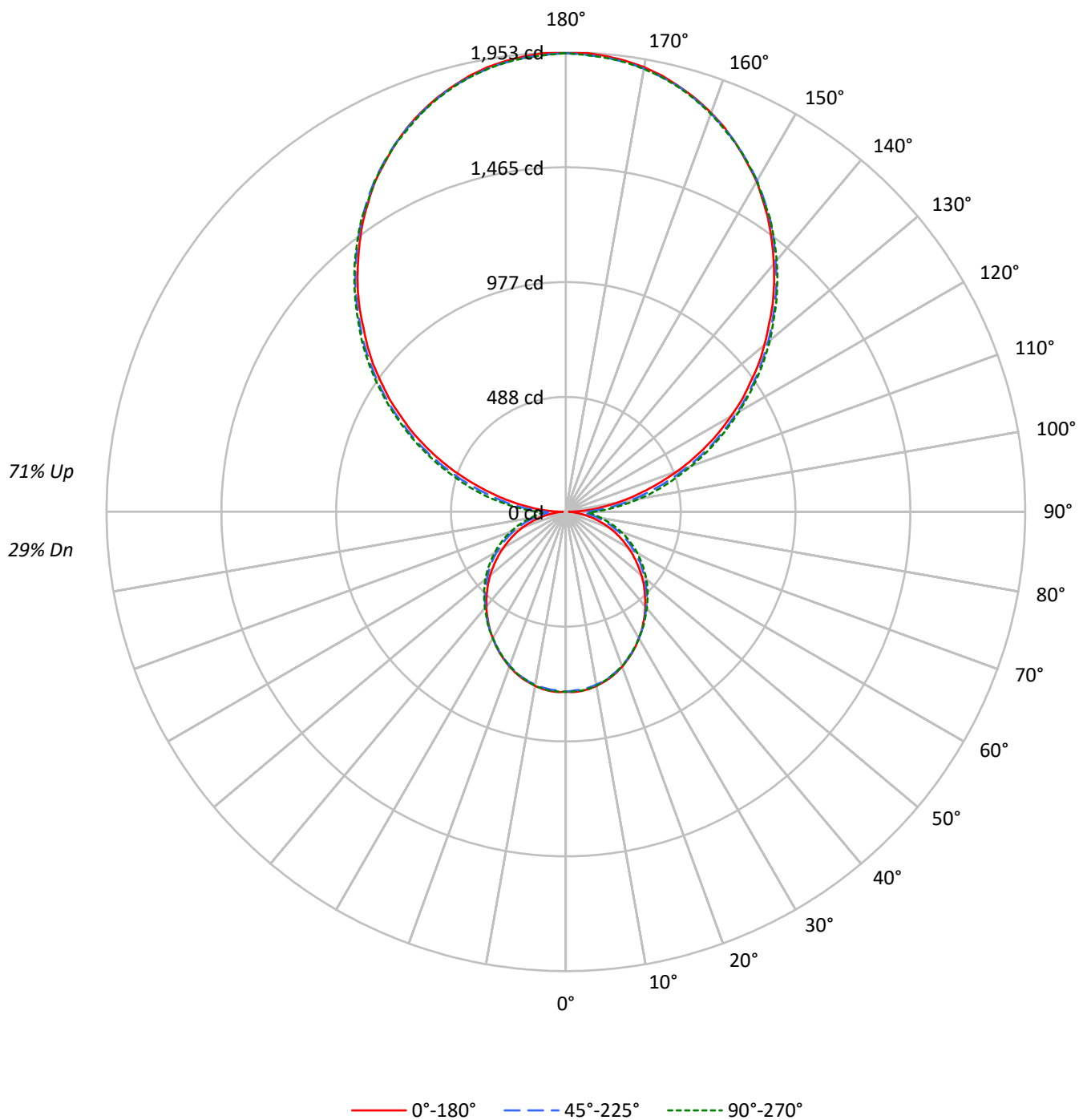
Lumens per Lamp: N/A
Luminaire Lumens: 7814.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	88	84	81	83	79	76	73	62	60	58	46	45	43	31	31	30
2	84	77	71	66	75	69	64	59	54	50	47	40	38	36	27	26	25
3	77	67	60	54	68	60	54	49	47	43	39	35	32	30	24	22	21
4	70	59	52	46	62	53	47	41	42	37	33	31	28	26	21	19	18
5	64	53	45	39	57	47	40	35	37	32	29	28	25	22	19	17	15
6	59	47	39	33	52	42	35	30	33	28	25	25	22	19	17	15	14
7	54	42	35	29	48	38	31	27	30	25	22	23	19	17	16	14	12
8	50	38	31	25	45	34	28	23	27	23	19	21	17	15	15	12	11
9	47	35	27	23	42	31	25	21	25	20	17	19	16	13	13	11	10
10	43	32	25	20	39	29	23	18	23	18	15	18	14	12	12	10	9

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	0.9
10°-20°	205.5	2.6
20°-30°	305.6	3.9
30°-40°	361.9	4.6
40°-50°	374.2	4.8
50°-60°	344.7	4.4
60°-70°	278.7	3.6
70°-80°	186.5	2.4
80°-90°	99.4	1.3
90°-100°	183.9	2.4
100°-110°	425.2	5.4
110°-120°	680.0	8.7
120°-130°	875.1	11.2
130°-140°	970.2	12.4
140°-150°	945.8	12.1
150°-160°	793.3	10.2
160°-170°	527.3	6.7
170°-180°	184.5	2.4
0°-30°	583.5	7.5
0°-40°	945.4	12.1
0°-60°	1664.3	21.3
0°-90°	2228.8	28.5
90°-120°	1289.1	16.5
90°-150°	4080.1	52.2
90°-180°	5585.0	71.5
0°-180°	7814.1	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	15
95°	108	131	172	199	207	111
105°	353	372	404	428	438	376
115°	658	670	692	704	707	651
125°	957	966	982	991	993	858
135°	1242	1251	1258	1267	1265	958
145°	1504	1510	1514	1518	1516	940
155°	1720	1720	1722	1728	1720	792
165°	1871	1868	1869	1875	1866	528
175°	1945	1939	1939	1948	1937	185
180°	1950	1950	1950	1950	1950	

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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	49.7	85.8	110.7	120.4
92.5°	56.0	85.4	125.3	152.4	160.7
95°	108.4	130.9	171.6	198.7	207.0
97.5°	160.7	180.2	226.3	251.1	257.9
100°	220.7	236.4	280.1	309.6	317.1
102.5°	285.1	307.0	337.8	368.0	377.0
105°	352.7	372.3	403.9	428.0	437.8
107.5°	426.2	444.3	473.7	493.3	497.8
110°	502.9	519.5	545.1	563.8	567.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.8	591.5	617.9	632.9	635.1
115°	658.4	669.8	692.3	704.3	707.3
117.5°	736.6	741.8	763.6	777.8	777.1
120°	809.4	819.2	838.0	850.7	849.1
122.5°	887.5	889.8	910.9	921.3	921.3
125°	957.3	965.7	982.2	991.2	993.3
127.5°	1034.0	1037.7	1052.0	1061.7	1063.2
130°	1102.2	1109.0	1122.5	1131.5	1132.3
132.5°	1169.7	1183.4	1189.3	1198.3	1196.8
135°	1242.5	1250.9	1257.6	1267.4	1265.1
137.5°	1310.8	1319.2	1325.2	1335.7	1331.2
140°	1375.3	1382.9	1388.2	1399.5	1394.9
142.5°	1440.6	1445.8	1451.9	1460.2	1455.6
145°	1504.3	1509.6	1514.1	1517.9	1516.4
147.5°	1562.7	1567.2	1570.2	1576.3	1565.7
150°	1621.8	1620.3	1626.4	1626.4	1624.1
152.5°	1670.4	1673.4	1674.9	1679.5	1673.4
155°	1720.4	1720.4	1722.0	1728.0	1720.4
157.5°	1766.0	1762.9	1764.4	1770.5	1759.9
160°	1805.4	1800.8	1802.4	1808.4	1800.8
162.5°	1840.3	1837.3	1837.3	1844.8	1835.7
165°	1870.6	1867.6	1869.1	1875.2	1866.1
167.5°	1897.9	1891.9	1891.9	1901.0	1891.9
170°	1919.2	1913.1	1913.1	1922.2	1911.6
172.5°	1934.4	1928.3	1928.3	1937.4	1928.3
175°	1945.0	1938.9	1938.9	1948.0	1937.4
177.5°	1952.6	1946.5	1945.0	1954.1	1943.5
180°	1949.5	1949.5	1949.5	1949.5	1949.5

(END OF REPORT)