

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: P1035458

Luminaire Tested: S125DIW-B610D1560UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035458
REPORT IS A COMBINATION OF REPORTS P1003893 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

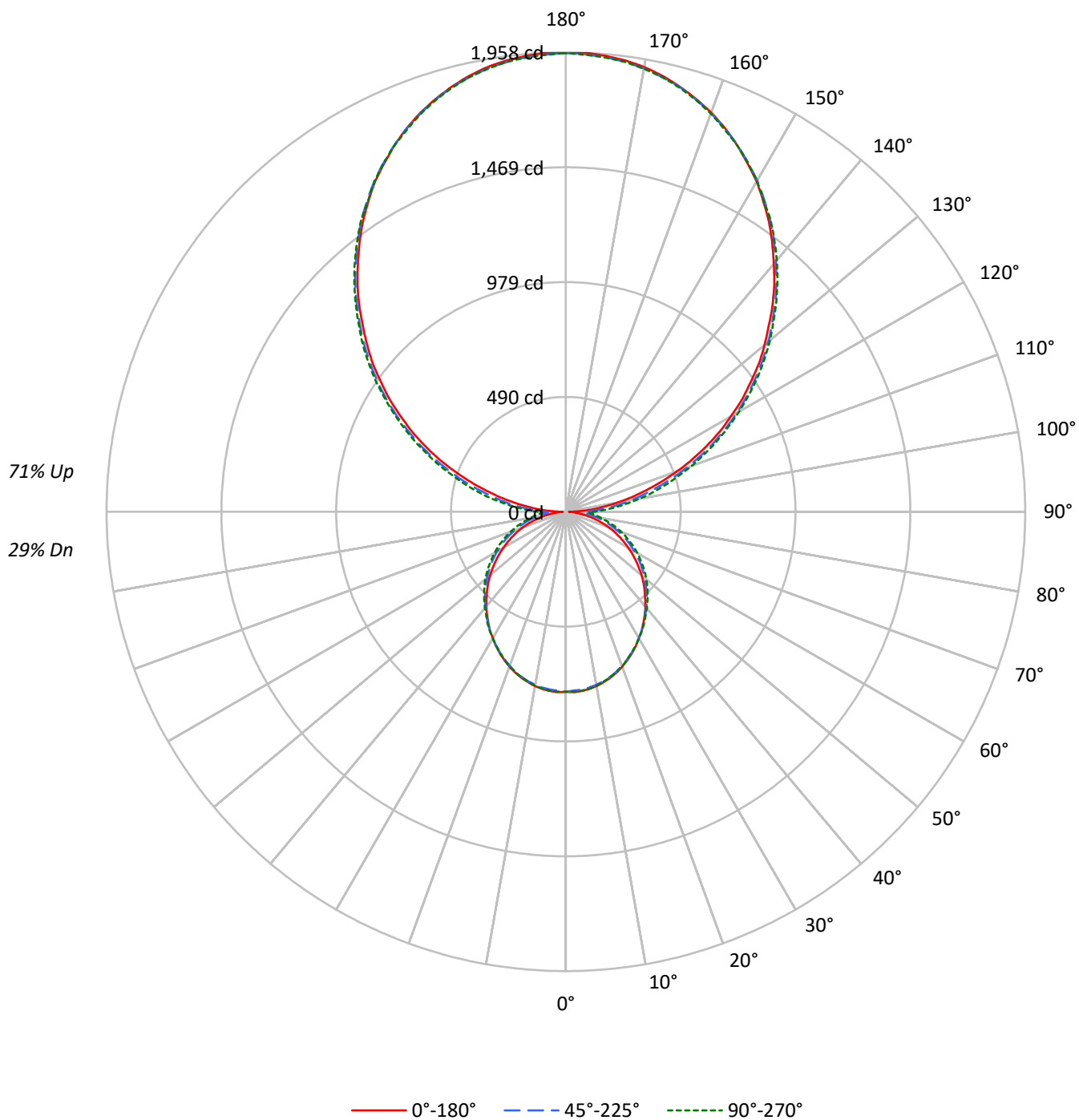
Lumens per Lamp: N/A
Luminaire Lumens: 7837.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4196 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	0.9
10°-20°	206.1	2.6
20°-30°	306.5	3.9
30°-40°	363.0	4.6
40°-50°	375.3	4.8
50°-60°	345.7	4.4
60°-70°	279.5	3.6
70°-80°	187.0	2.4
80°-90°	99.7	1.3
90°-100°	184.5	2.4
100°-110°	426.4	5.4
110°-120°	681.9	8.7
120°-130°	877.6	11.2
130°-140°	973.0	12.4
140°-150°	948.6	12.1
150°-160°	795.6	10.2
160°-170°	528.9	6.7
170°-180°	185.1	2.4
0°-30°	585.2	7.5
0°-40°	948.2	12.1
0°-60°	1669.2	21.3
0°-90°	2235.4	28.5
90°-120°	1292.8	16.5
90°-150°	4092.0	52.2
90°-180°	5602.0	71.5
0°-180°	7837.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	14	50	86	111	121	15
95°	109	131	172	199	208	111
105°	354	373	405	429	439	377
115°	660	672	694	706	709	653
125°	960	968	985	994	996	860
135°	1246	1255	1261	1271	1269	961
145°	1509	1514	1519	1522	1521	943
155°	1726	1726	1727	1733	1726	795
165°	1876	1873	1875	1881	1872	529
175°	1951	1945	1945	1954	1943	185
180°	1955	1955	1955	1955	1955	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	13.5	49.8	86.0	111.0	120.8
92.5°	56.1	85.6	125.7	152.8	161.1
95°	108.7	131.2	172.1	199.3	207.6
97.5°	161.2	180.8	226.9	251.8	258.6
100°	221.3	237.1	280.9	310.4	318.0
102.5°	286.0	307.9	338.8	369.1	378.1
105°	353.7	373.3	405.1	429.2	439.1
107.5°	427.5	445.6	475.1	494.7	499.2
110°	504.4	521.0	546.7	565.4	569.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.5	593.3	619.6	634.8	637.0
115°	660.3	671.7	694.2	706.3	709.3
117.5°	738.7	744.0	765.8	780.1	779.3
120°	811.8	821.6	840.4	853.2	851.6
122.5°	890.1	892.4	913.5	924.0	924.0
125°	960.1	968.5	985.0	994.0	996.3
127.5°	1037.0	1040.8	1055.1	1064.9	1066.3
130°	1105.5	1112.3	1125.8	1134.9	1135.5
132.5°	1173.1	1186.8	1192.8	1201.9	1200.3
135°	1246.2	1254.6	1261.3	1271.1	1268.8
137.5°	1314.6	1323.1	1329.1	1339.6	1335.0
140°	1379.4	1387.0	1392.2	1403.6	1399.0
142.5°	1444.8	1450.1	1456.2	1464.5	1459.9
145°	1508.7	1514.0	1518.6	1522.4	1520.8
147.5°	1567.2	1571.8	1574.9	1580.9	1570.2
150°	1626.6	1625.1	1631.2	1631.2	1628.9
152.5°	1675.3	1678.3	1679.8	1684.4	1678.3
155°	1725.5	1725.5	1727.0	1733.1	1725.5
157.5°	1771.1	1768.1	1769.6	1775.7	1765.1
160°	1810.7	1806.1	1807.7	1813.7	1806.1
162.5°	1845.7	1842.7	1842.7	1850.3	1841.1
165°	1876.1	1873.1	1874.6	1880.7	1871.6
167.5°	1903.5	1897.4	1897.4	1906.6	1897.4
170°	1924.8	1918.7	1918.7	1927.9	1917.2
172.5°	1940.0	1934.0	1934.0	1943.1	1934.0
175°	1950.7	1944.6	1944.6	1953.7	1943.1
177.5°	1958.3	1952.2	1950.7	1959.8	1949.2
180°	1955.3	1955.3	1955.3	1955.3	1955.3

(END OF REPORT)