

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: P1035415

Luminaire Tested: S125DIW-B610D1340UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035415
REPORT IS A COMBINATION OF REPORTS P1003782 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

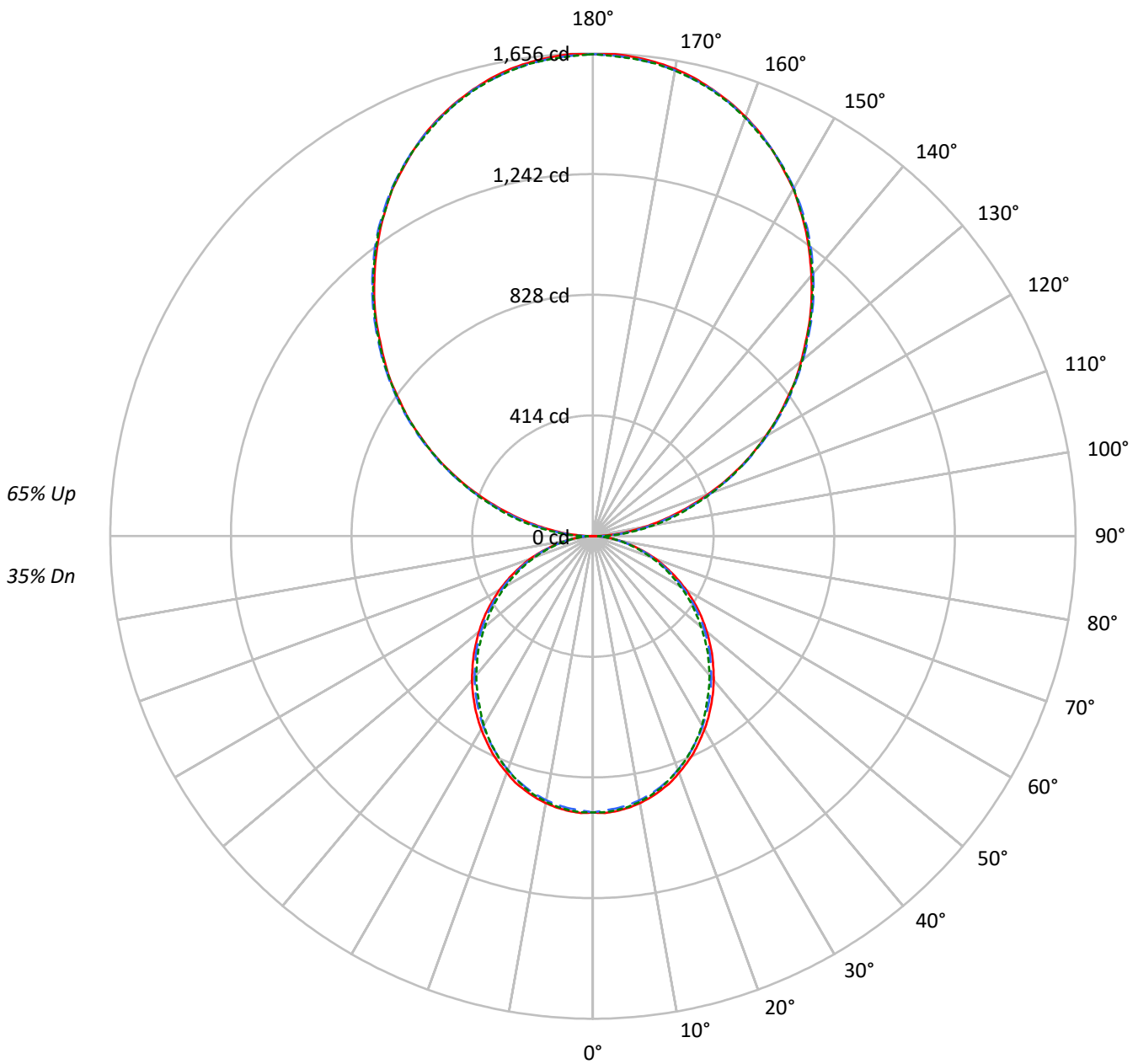
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7085.0 lumens
Efficiency: N/A
Efficacy: 107.2 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): 66.1
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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	94	94	94	94	75	75	75	58	58	58	42	42	42	35				35
1	94	90	86	83	85	82	78	75	66	63	61	51	49	48	37	36	36	29				29
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	24				24
3	78	69	62	56	70	63	56	52	51	46	43	39	36	34	29	27	25	21				21
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22	18				18
5	66	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19	15				15
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14				14
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15	12				12
8	52	40	32	27	47	36	29	25	30	25	21	23	20	17	18	15	13	11				11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	16	14	12	10				10
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9				9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6075	5934	5946
10°	6025	5799	5780
15°	5947	5636	5585
20°	5839	5447	5362
25°	5725	5241	5122
30°	5586	5027	4870
35°	5438	4802	4587
40°	5285	4564	4335
45°	5119	4332	4068
50°	4937	4070	3757
55°	4757	3781	3470
60°	4542	3475	3137
65°	4285	3122	2793
70°	4025	2716	2396
75°	3584	2235	1937
80°	3054	1670	1425
85°	2361	988	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.3
10°-20°	252.7	3.6
20°-30°	373.1	5.3
30°-40°	435.3	6.1
40°-50°	437.2	6.2
50°-60°	383.8	5.4
60°-70°	285.9	4.0
70°-80°	163.3	2.3
80°-90°	49.7	0.7
90°-100°	110.0	1.6
100°-110°	326.6	4.6
110°-120°	553.9	7.8
120°-130°	729.2	10.3
130°-140°	817.2	11.5
140°-150°	801.0	11.3
150°-160°	672.8	9.5
160°-170°	447.2	6.3
170°-180°	156.5	2.2
0°-30°	715.3	10.1
0°-40°	1150.7	16.2
0°-60°	1971.7	27.8
0°-90°	2470.6	34.9
90°-120°	990.5	14.0
90°-150°	3337.9	47.1
90°-180°	4614.0	65.1
0°-180°	7085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	945	938	944	944	90
15°	902	900	892	896	896	254
25°	819	815	806	807	805	377
35°	707	704	694	690	684	443
45°	579	576	567	558	556	446
55°	441	439	428	422	416	394
65°	298	296	288	281	278	295
75°	158	157	153	151	148	169
85°	41	42	42	41	40	45
90°	1	12	21	27	31	8
95°	84	86	99	108	111	87
105°	293	300	308	315	319	313
115°	555	560	562	561	560	549
125°	809	817	818	816	814	725
135°	1052	1060	1062	1062	1056	811
145°	1275	1280	1284	1284	1280	797
155°	1459	1459	1460	1466	1459	672
165°	1586	1584	1585	1590	1583	448
175°	1650	1644	1644	1652	1643	157
180°	1653	1653	1653	1653	1653	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	951.2	949.0	941.5	949.0	948.2
5°	946.7	945.2	937.7	944.5	943.7
7.5°	940.0	938.5	930.2	937.0	936.2
10°	930.2	928.7	920.5	926.5	925.7
12.5°	918.2	915.2	907.7	912.2	912.2
15°	902.5	900.2	892.0	895.7	895.7
17.5°	886.0	882.2	874.0	878.5	874.7
20°	864.2	862.7	853.0	858.2	854.5
22.5°	842.5	839.5	830.4	833.4	831.2
25°	819.2	815.4	805.7	807.2	804.9
27.5°	792.2	789.9	780.2	780.9	778.7
30°	765.9	763.7	752.4	750.9	748.7
32.5°	737.4	733.7	723.9	720.9	716.4
35°	707.4	704.4	693.9	690.2	684.2
37.5°	676.7	672.9	663.2	657.9	654.2
40°	645.2	641.4	630.9	624.1	621.9
42.5°	611.4	608.4	597.9	591.9	588.1
45°	579.1	576.1	567.1	558.1	555.9
47.5°	543.9	544.6	533.4	524.4	519.1
50°	510.1	507.9	498.9	489.1	483.9
52.5°	475.6	474.1	464.4	456.1	450.1
55°	441.1	438.9	428.4	421.6	416.3
57.5°	404.3	403.6	394.6	385.6	383.3
60°	369.8	366.8	358.6	351.1	345.8
62.5°	333.8	331.6	324.8	316.6	312.8
65°	297.8	296.3	288.1	281.3	278.3
67.5°	262.6	259.6	253.6	247.6	246.1
70°	229.6	225.8	219.1	214.6	211.6
72.5°	193.5	191.3	187.5	182.3	179.3
75°	158.3	156.8	153.0	150.8	147.8
77.5°	125.3	124.5	122.3	120.8	118.5
80°	94.5	94.5	93.0	92.3	90.8
82.5°	67.5	66.0	66.0	64.5	64.5
85°	41.3	42.0	42.0	41.3	39.8
87.5°	20.3	20.3	19.5	19.5	18.0
90°	1.3	11.6	20.6	27.0	30.9
92.5°	38.6	45.0	56.6	65.6	68.2
95°	83.6	86.2	99.1	108.1	110.7
97.5°	128.7	130.0	148.0	155.7	157.0
100°	180.1	180.1	196.9	208.4	211.0
102.5°	235.5	241.9	248.3	261.2	265.1
105°	293.4	299.8	307.5	315.2	319.1
107.5°	356.4	362.8	369.3	373.1	373.1
110°	422.0	428.5	432.3	436.2	434.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.9	491.5	496.7	497.9	495.4
115°	554.6	559.7	562.3	561.0	559.7
117.5°	621.5	622.7	625.3	626.6	621.5
120°	683.2	689.7	690.9	690.9	685.8
122.5°	750.1	751.4	755.3	754.0	750.1
125°	809.3	817.0	818.3	815.7	814.5
127.5°	874.9	878.8	880.1	878.8	876.2
130°	932.8	939.3	941.8	940.6	938.0
132.5°	990.7	1002.3	1001.0	999.7	995.9
135°	1052.5	1060.2	1061.5	1061.5	1056.4
137.5°	1110.4	1118.1	1120.7	1122.0	1115.5
140°	1165.7	1172.2	1176.0	1178.6	1172.2
142.5°	1221.1	1226.2	1231.3	1232.6	1226.2
145°	1275.1	1280.2	1284.1	1284.1	1280.2
147.5°	1325.3	1329.1	1331.7	1335.6	1325.3
150°	1375.5	1374.2	1379.3	1379.3	1376.7
152.5°	1416.6	1419.2	1420.5	1424.3	1419.2
155°	1459.1	1459.1	1460.4	1465.5	1459.1
157.5°	1497.7	1495.1	1496.4	1501.5	1492.5
160°	1531.1	1527.3	1528.6	1533.7	1527.3
162.5°	1560.7	1558.2	1558.2	1564.6	1556.9
165°	1586.5	1583.9	1585.2	1590.3	1582.6
167.5°	1609.6	1604.5	1604.5	1612.2	1604.5
170°	1627.6	1622.5	1622.5	1630.2	1621.2
172.5°	1640.5	1635.4	1635.4	1643.1	1635.4
175°	1649.5	1644.4	1644.4	1652.1	1643.1
177.5°	1655.9	1650.8	1649.5	1657.2	1648.2
180°	1653.4	1653.4	1653.4	1653.4	1653.4

(END OF REPORT)