

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: P1035464

Luminaire Tested: S125DIW-B610D1560UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035464
REPORT IS A COMBINATION OF REPORTS P1003902 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

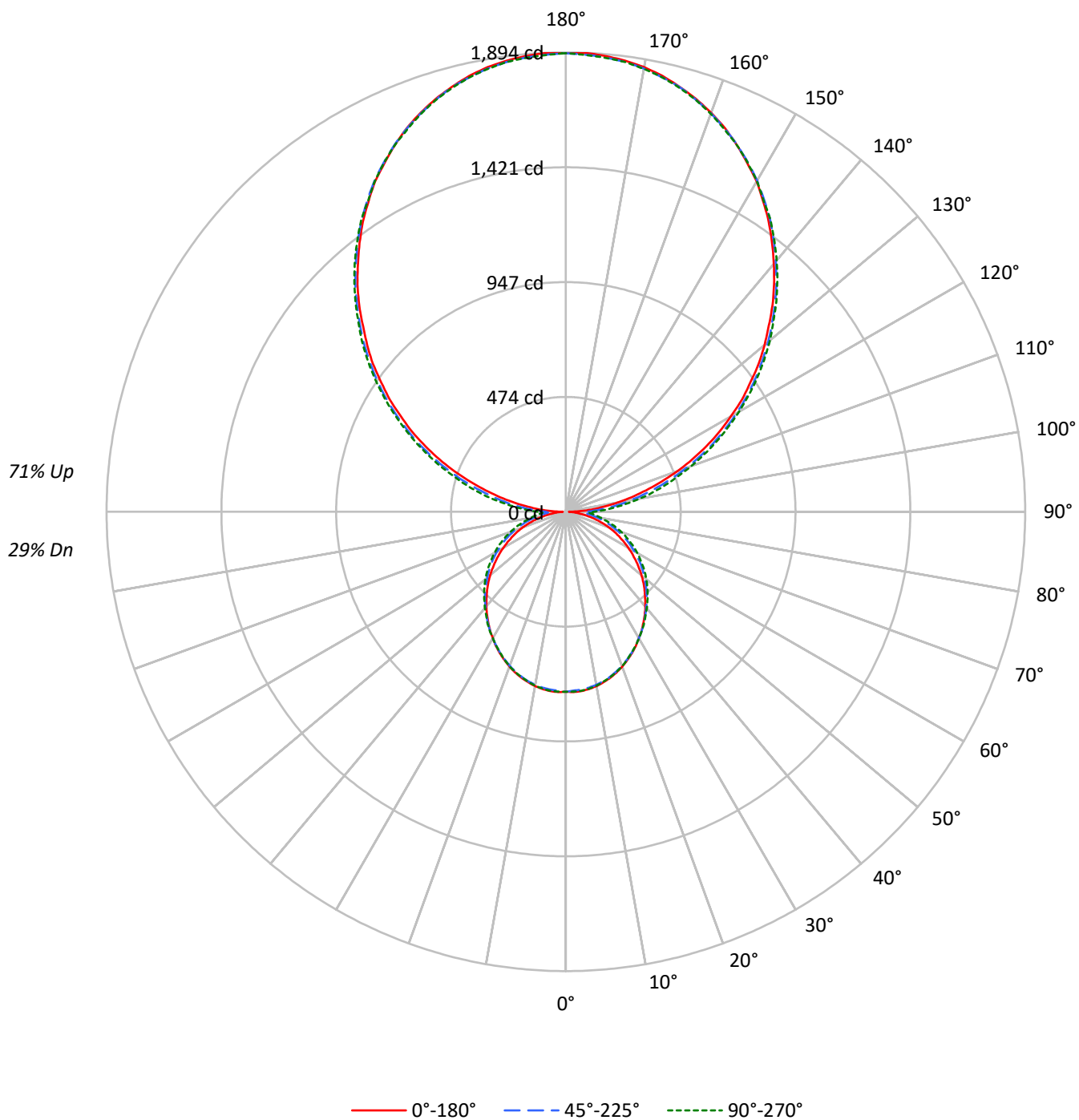
Lumens per Lamp: N/A
Luminaire Lumens: 7579.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	0.9
10°-20°	199.4	2.6
20°-30°	296.5	3.9
30°-40°	351.1	4.6
40°-50°	363.0	4.8
50°-60°	334.4	4.4
60°-70°	270.3	3.6
70°-80°	180.9	2.4
80°-90°	96.4	1.3
90°-100°	178.4	2.4
100°-110°	412.3	5.4
110°-120°	659.5	8.7
120°-130°	848.7	11.2
130°-140°	940.9	12.4
140°-150°	917.3	12.1
150°-160°	769.4	10.2
160°-170°	511.5	6.7
170°-180°	179.0	2.4
0°-30°	566.0	7.5
0°-40°	917.1	12.1
0°-60°	1614.5	21.3
0°-90°	2162.0	28.5
90°-120°	1250.2	16.5
90°-150°	3957.1	52.2
90°-180°	5417.0	71.5
0°-180°	7579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	13	48	83	107	117	15
95°	105	127	166	193	201	107
105°	342	361	392	415	425	365
115°	639	650	671	683	686	632
125°	928	937	952	961	963	832
135°	1205	1213	1220	1229	1227	929
145°	1459	1464	1468	1472	1471	912
155°	1669	1669	1670	1676	1669	769
165°	1814	1811	1813	1819	1810	512
175°	1886	1880	1880	1889	1879	179
180°	1891	1891	1891	1891	1891	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	13.1	48.1	83.2	107.3	116.8
92.5°	54.3	82.8	121.5	147.8	155.9
95°	105.1	127.0	166.4	192.7	200.7
97.5°	155.8	174.8	219.4	243.5	250.1
100°	214.0	229.3	271.7	300.2	307.5
102.5°	276.6	297.7	327.7	356.9	365.7
105°	342.0	361.0	391.7	415.1	424.6
107.5°	413.4	430.9	459.4	478.4	482.7
110°	487.7	503.8	528.6	546.8	550.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	564.2	573.7	599.3	613.8	616.0
115°	638.6	649.6	671.4	683.0	685.9
117.5°	714.3	719.5	740.6	754.4	753.6
120°	784.9	794.5	812.8	825.1	823.6
122.5°	860.7	862.9	883.3	893.6	893.5
125°	928.4	936.6	952.5	961.3	963.4
127.5°	1002.8	1006.5	1020.3	1029.7	1031.1
130°	1069.0	1075.6	1088.7	1097.4	1098.2
132.5°	1134.5	1147.7	1153.5	1162.2	1160.7
135°	1205.1	1213.2	1219.7	1229.2	1226.9
137.5°	1271.3	1279.4	1285.2	1295.5	1291.0
140°	1333.8	1341.2	1346.4	1357.3	1352.9
142.5°	1397.1	1402.3	1408.2	1416.1	1411.8
145°	1458.9	1464.1	1468.5	1472.1	1470.6
147.5°	1515.6	1520.0	1522.9	1528.9	1518.5
150°	1573.0	1571.5	1577.4	1577.4	1575.1
152.5°	1620.1	1623.0	1624.5	1628.9	1623.0
155°	1668.6	1668.6	1670.1	1676.0	1668.6
157.5°	1712.8	1709.8	1711.3	1717.2	1706.9
160°	1751.0	1746.6	1748.1	1754.0	1746.6
162.5°	1784.9	1781.9	1781.9	1789.3	1780.4
165°	1814.3	1811.3	1812.8	1818.7	1809.9
167.5°	1840.8	1834.9	1834.9	1843.7	1834.9
170°	1861.4	1855.5	1855.5	1864.3	1854.0
172.5°	1876.1	1870.2	1870.2	1879.0	1870.2
175°	1886.4	1880.5	1880.5	1889.3	1879.0
177.5°	1893.7	1887.9	1886.4	1895.2	1884.9
180°	1890.8	1890.8	1890.8	1890.8	1890.8

(END OF REPORT)