

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: P1035447

Luminaire Tested: S125DIW-B610D1560UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035447
REPORT IS A COMBINATION OF REPORTS P1003877 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

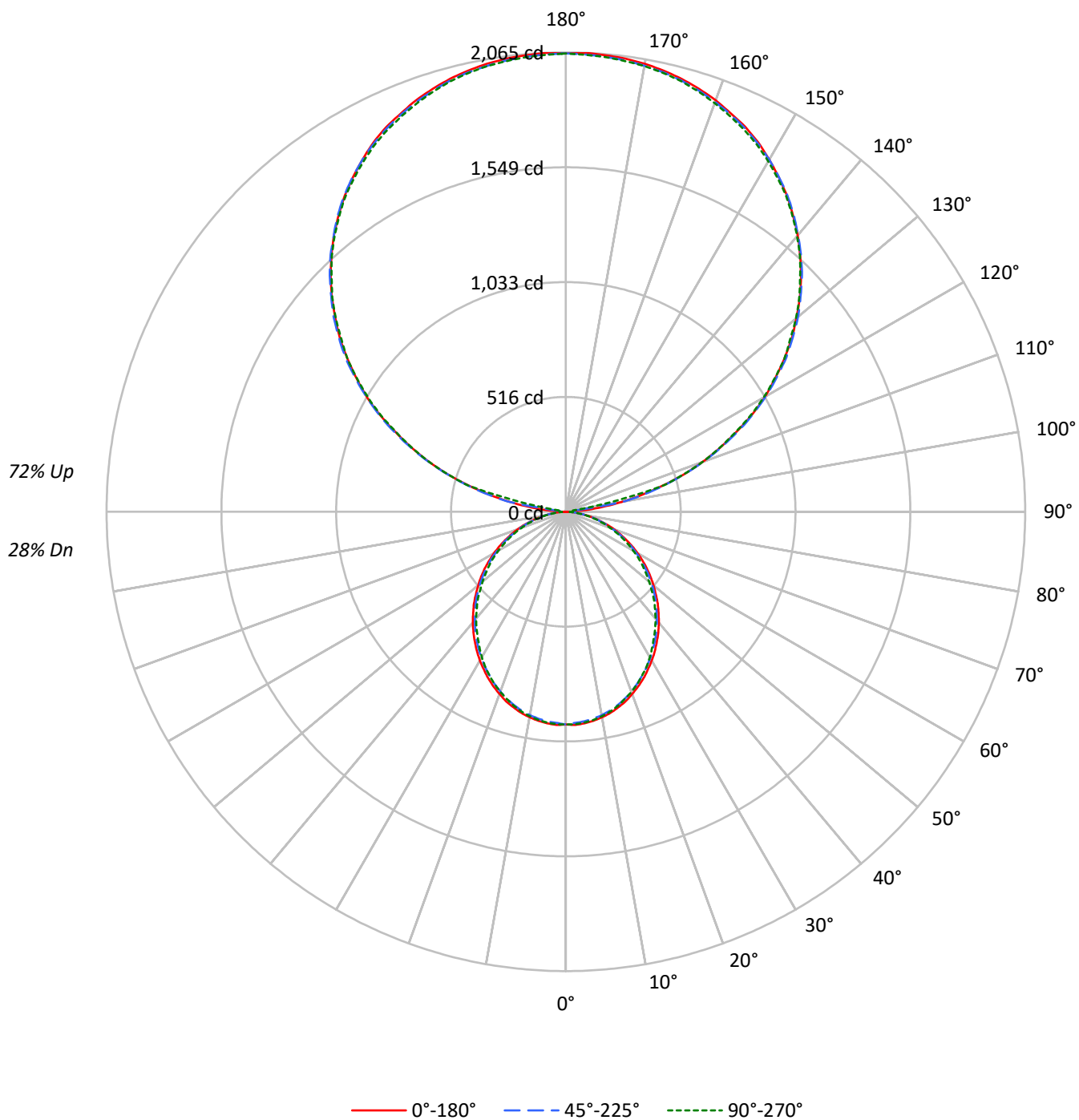
Lumens per Lamp: N/A
Luminaire Lumens: 8821.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	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	36	36	28
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	32	31	30	30	30	24
2	85	77	71	66	75	69	64	60	54	51	48	41	39	37	28	27	26	26	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	22	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	19	19	14
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	16	16	12
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	14	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	13	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	11	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	10	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.0
10°-20°	254.9	2.9
20°-30°	376.3	4.3
30°-40°	439.0	5.0
40°-50°	440.9	5.0
50°-60°	387.1	4.4
60°-70°	288.3	3.3
70°-80°	164.6	1.9
80°-90°	50.6	0.6
90°-100°	69.9	0.8
100°-110°	465.0	5.3
110°-120°	837.4	9.5
120°-130°	1074.8	12.2
130°-140°	1156.0	13.1
140°-150°	1084.9	12.3
150°-160°	877.6	9.9
160°-170°	567.6	6.4
170°-180°	195.7	2.2
0°-30°	721.4	8.2
0°-40°	1160.5	13.2
0°-60°	1988.5	22.5
0°-90°	2492.1	28.3
90°-120°	1372.3	15.6
90°-150°	4688.0	53.1
90°-180°	6329.0	71.7
0°-180°	8821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	46
90°	2	14	24	32	37	7
95°	87	82	24	32	32	107
105°	449	455	455	455	454	476
115°	843	851	852	846	837	836
125°	1199	1210	1210	1204	1199	1071
135°	1495	1504	1501	1498	1489	1153
145°	1734	1737	1737	1738	1729	1084
155°	1909	1900	1903	1908	1895	880
165°	2014	2005	2007	2016	2004	569
175°	2060	2051	2053	2065	2051	196
180°	2060	2060	2060	2060	2060	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
90°	1.5	13.7	24.4	32.1	36.7
92.5°	29.0	15.3	24.4	32.1	33.6
95°	87.1	82.5	24.4	32.1	32.1
97.5°	163.4	172.6	27.5	30.5	32.1
100°	255.1	259.6	265.8	38.2	32.1
102.5°	348.2	354.3	357.4	360.4	232.2
105°	449.0	455.1	455.1	455.1	453.6
107.5°	552.9	552.9	555.9	557.5	551.4
110°	653.7	653.7	656.7	652.2	653.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	748.4	753.0	754.5	748.4	745.3
115°	843.1	850.7	852.2	846.1	837.0
117.5°	942.4	942.4	948.5	939.3	936.2
120°	1034.0	1032.5	1037.0	1034.0	1026.4
122.5°	1114.9	1122.6	1124.1	1121.0	1111.9
125°	1198.9	1209.6	1209.6	1203.5	1198.9
127.5°	1279.9	1287.5	1286.0	1282.9	1270.7
130°	1353.2	1360.8	1362.4	1357.8	1350.1
132.5°	1426.5	1435.7	1431.1	1431.1	1423.5
135°	1495.2	1504.4	1501.3	1498.3	1489.1
137.5°	1559.4	1568.6	1565.5	1565.5	1557.9
140°	1622.0	1625.1	1623.5	1626.6	1617.4
142.5°	1678.5	1680.0	1683.1	1683.1	1673.9
145°	1733.5	1736.6	1736.6	1738.1	1728.9
147.5°	1782.4	1782.4	1783.9	1785.4	1774.7
150°	1828.2	1825.1	1828.2	1831.2	1819.0
152.5°	1872.5	1864.8	1867.9	1871.0	1860.3
155°	1909.1	1900.0	1903.0	1907.6	1895.4
157.5°	1938.2	1933.6	1933.6	1938.2	1925.9
160°	1968.7	1959.5	1961.1	1967.2	1955.0
162.5°	1993.1	1984.0	1985.5	1994.7	1980.9
165°	2014.5	2005.4	2006.9	2016.1	2003.8
167.5°	2031.3	2022.2	2023.7	2034.4	2020.6
170°	2045.1	2034.4	2035.9	2048.1	2034.4
172.5°	2054.2	2043.5	2046.6	2057.3	2043.5
175°	2060.3	2051.2	2052.7	2064.9	2051.2
177.5°	2064.9	2055.8	2057.3	2068.0	2055.8
180°	2060.3	2060.3	2060.3	2060.3	2060.3

(END OF REPORT)