

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: P1032801

Luminaire Tested: S124DIW-B795D1560UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032801
REPORT IS A COMBINATION OF REPORTS P998090 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1560UB2750-4F0-XX-W2A-D_3000K
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

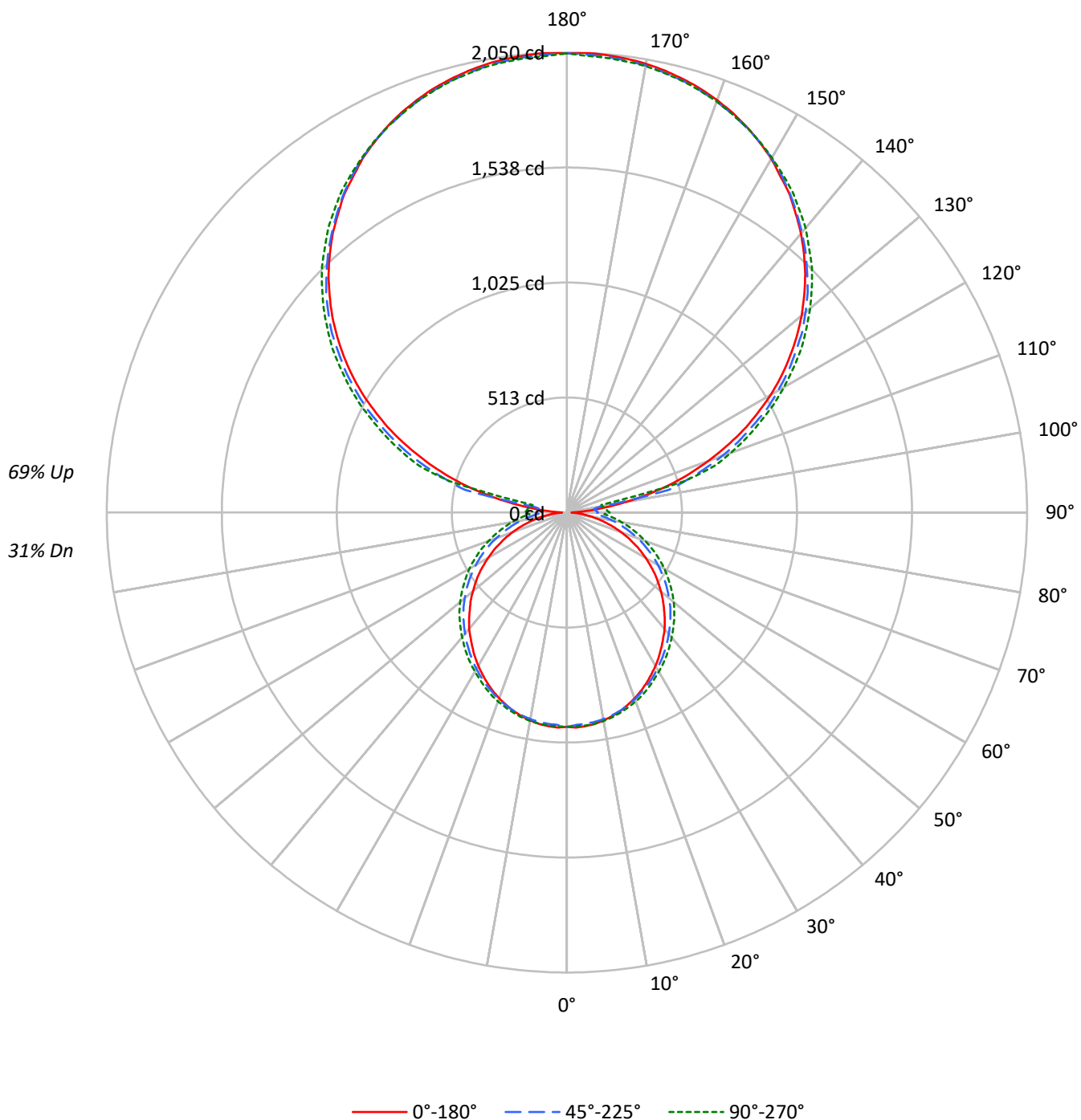
Lumens per Lamp: N/A
Luminaire Lumens: 9591.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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



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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	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39
1	93	89	84	81	83	80	76	73	63	61	58	48	46	45	33	33	32	32	32	32
2	84	77	71	65	75	69	64	59	55	51	48	41	39	37	29	28	26	26	26	26
3	77	67	60	54	69	61	54	49	48	44	40	36	33	31	26	24	22	22	22	22
4	70	59	51	45	63	53	47	41	42	38	34	32	29	26	23	20	19	19	19	19
5	64	53	45	39	57	47	40	35	38	33	29	29	25	22	20	18	16	16	16	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	18	16	14	14	14	14
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	12	12	12
8	50	38	31	25	45	35	28	23	28	23	19	21	18	15	15	13	11	11	11	11
9	47	35	27	22	42	31	25	21	25	20	17	20	16	13	14	12	10	10	10	10
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	11	9	9	9	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7788	7788	7788
5°	7809	7585	7599
10°	7758	7435	7414
15°	7686	7268	7206
20°	7578	7086	7005
25°	7457	6886	6787
30°	7325	6687	6565
35°	7177	6485	6367
40°	7059	6289	6162
45°	6882	6107	5982
50°	6732	5899	5791
55°	6577	5698	5572
60°	6336	5450	5365
65°	6071	5181	5115
70°	5749	4874	4828
75°	5300	4533	4554
80°	4796	4186	4267
85°	4126	3836	4035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 90°
Luminance: 7078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	0.9
10°-20°	259.3	2.7
20°-30°	392.0	4.1
30°-40°	474.3	4.9
40°-50°	501.4	5.2
50°-60°	471.9	4.9
60°-70°	391.5	4.1
70°-80°	274.8	2.9
80°-90°	159.1	1.7
90°-100°	160.1	1.7
100°-110°	515.5	5.4
110°-120°	899.9	9.4
120°-130°	1110.0	11.6
130°-140°	1171.0	12.2
140°-150°	1086.7	11.3
150°-160°	874.6	9.1
160°-170°	564.0	5.9
170°-180°	194.4	2.0
0°-30°	741.8	7.7
0°-40°	1216.0	12.7
0°-60°	2189.2	22.8
0°-90°	3014.7	31.4
90°-120°	1575.5	16.4
90°-150°	4943.3	51.5
90°-180°	6576.0	68.6
0°-180°	9591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	956	953	945	954	953	91
15°	916	918	914	924	923	258
25°	838	845	848	860	861	386
35°	734	746	757	772	775	459
45°	612	632	652	670	676	473
55°	479	502	534	555	562	427
65°	332	366	402	429	437	329
75°	184	224	268	298	308	195
85°	57	102	150	182	192	59
90°	22	81	140	180	191	16
95°	98	81	127	165	176	115
105°	470	501	548	588	542	493
115°	866	881	913	940	947	853
125°	1213	1218	1242	1267	1275	1084
135°	1502	1500	1514	1534	1544	1157
145°	1730	1734	1734	1742	1749	1081
155°	1896	1898	1893	1899	1894	874
165°	2000	1992	1992	2005	1991	565
175°	2046	2037	2038	2052	2034	195
180°	2046	2046	2046	2046	2046	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.0	955.0	955.0	955.0	955.0
2.5°	959.3	956.1	947.5	955.0	953.9
5°	956.1	952.9	945.4	953.9	952.9
7.5°	949.7	947.5	941.1	950.7	949.7
10°	941.1	940.0	934.7	944.3	943.2
12.5°	929.3	929.3	926.1	934.7	934.7
15°	916.5	917.6	914.4	924.0	922.9
17.5°	899.4	902.6	901.5	911.2	910.1
20°	881.2	884.4	885.5	896.2	896.2
22.5°	860.9	865.2	867.3	878.0	880.1
25°	838.4	844.9	848.1	859.8	860.9
27.5°	813.8	823.5	827.7	838.4	839.5
30°	789.2	797.8	805.3	817.0	819.2
32.5°	762.5	773.2	781.8	795.7	797.8
35°	733.6	746.5	757.2	772.1	775.3
37.5°	704.8	719.7	732.6	747.5	750.7
40°	677.0	690.9	705.8	721.9	726.1
42.5°	644.9	660.9	679.1	697.3	700.5
45°	611.7	632.0	652.4	670.5	675.9
47.5°	580.7	601.0	624.5	642.7	649.1
50°	546.5	570.0	593.5	614.9	621.3
52.5°	512.3	535.8	563.6	585.0	591.4
55°	479.1	501.6	533.6	555.0	561.5
57.5°	441.7	469.5	500.5	526.2	531.5
60°	405.3	433.1	468.4	493.0	501.6
62.5°	370.0	401.0	436.3	460.9	469.5
65°	331.5	365.7	402.1	428.8	437.4
67.5°	295.2	331.5	370.0	396.8	405.3
70°	257.7	294.1	334.7	363.6	371.1
72.5°	221.4	258.8	302.6	330.5	339.0
75°	183.9	223.5	268.4	298.4	308.0
77.5°	148.7	190.4	237.4	267.4	278.1
80°	116.6	159.3	206.4	238.5	247.0
82.5°	84.5	129.4	176.5	209.6	219.2
85°	56.7	101.6	149.7	181.8	192.5
87.5°	35.3	79.1	126.2	157.2	166.8
90°	21.7	81.3	139.6	179.7	191.3
92.5°	39.0	73.4	131.6	170.7	179.3
95°	98.1	81.3	126.7	164.7	175.9
97.5°	173.5	238.1	121.4	156.8	167.9
100°	262.8	318.1	148.6	151.5	160.4
102.5°	363.8	405.6	464.6	148.1	156.7
105°	470.2	500.8	548.0	588.5	542.0
107.5°	569.7	592.5	640.6	675.0	688.6
110°	669.7	689.1	735.8	763.5	776.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	766.5	788.5	826.8	848.8	863.5
115°	866.4	880.6	913.3	939.9	947.4
117.5°	956.7	969.2	1005.9	1026.9	1035.4
120°	1047.4	1056.8	1086.3	1110.7	1116.2
122.5°	1133.1	1136.1	1168.1	1191.0	1195.5
125°	1213.2	1218.2	1241.8	1266.8	1274.8
127.5°	1291.2	1291.7	1320.7	1338.4	1344.3
130°	1365.1	1365.5	1387.2	1408.1	1414.5
132.5°	1434.0	1435.9	1454.9	1474.7	1479.5
135°	1501.7	1500.2	1513.8	1534.0	1543.5
137.5°	1562.9	1561.9	1573.8	1592.9	1596.7
140°	1622.6	1624.7	1628.7	1647.2	1654.2
142.5°	1675.2	1681.3	1681.7	1696.6	1700.8
145°	1730.3	1733.7	1733.7	1741.7	1749.0
147.5°	1773.1	1781.2	1779.7	1782.3	1788.0
150°	1820.5	1825.6	1824.0	1824.0	1825.6
152.5°	1859.2	1863.8	1860.8	1863.8	1862.3
155°	1896.0	1897.5	1892.9	1899.0	1894.4
157.5°	1928.1	1928.1	1922.0	1929.6	1922.0
160°	1955.6	1951.0	1949.5	1958.7	1949.5
162.5°	1980.1	1974.0	1972.5	1981.6	1970.9
165°	2000.0	1992.4	1992.4	2004.6	1990.8
167.5°	2016.8	2009.2	2007.7	2021.4	2006.1
170°	2030.6	2021.4	2023.0	2035.2	2019.9
172.5°	2039.8	2030.6	2032.1	2044.4	2027.5
175°	2045.9	2036.7	2038.3	2052.0	2033.7
177.5°	2050.5	2039.8	2042.9	2055.1	2036.7
180°	2045.9	2045.9	2045.9	2045.9	2045.9

(END OF REPORT)