

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: P1033598

Luminaire Tested: S124DIW-B575D1560UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033598
REPORT IS A COMBINATION OF REPORTS P997774 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B575D1560UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

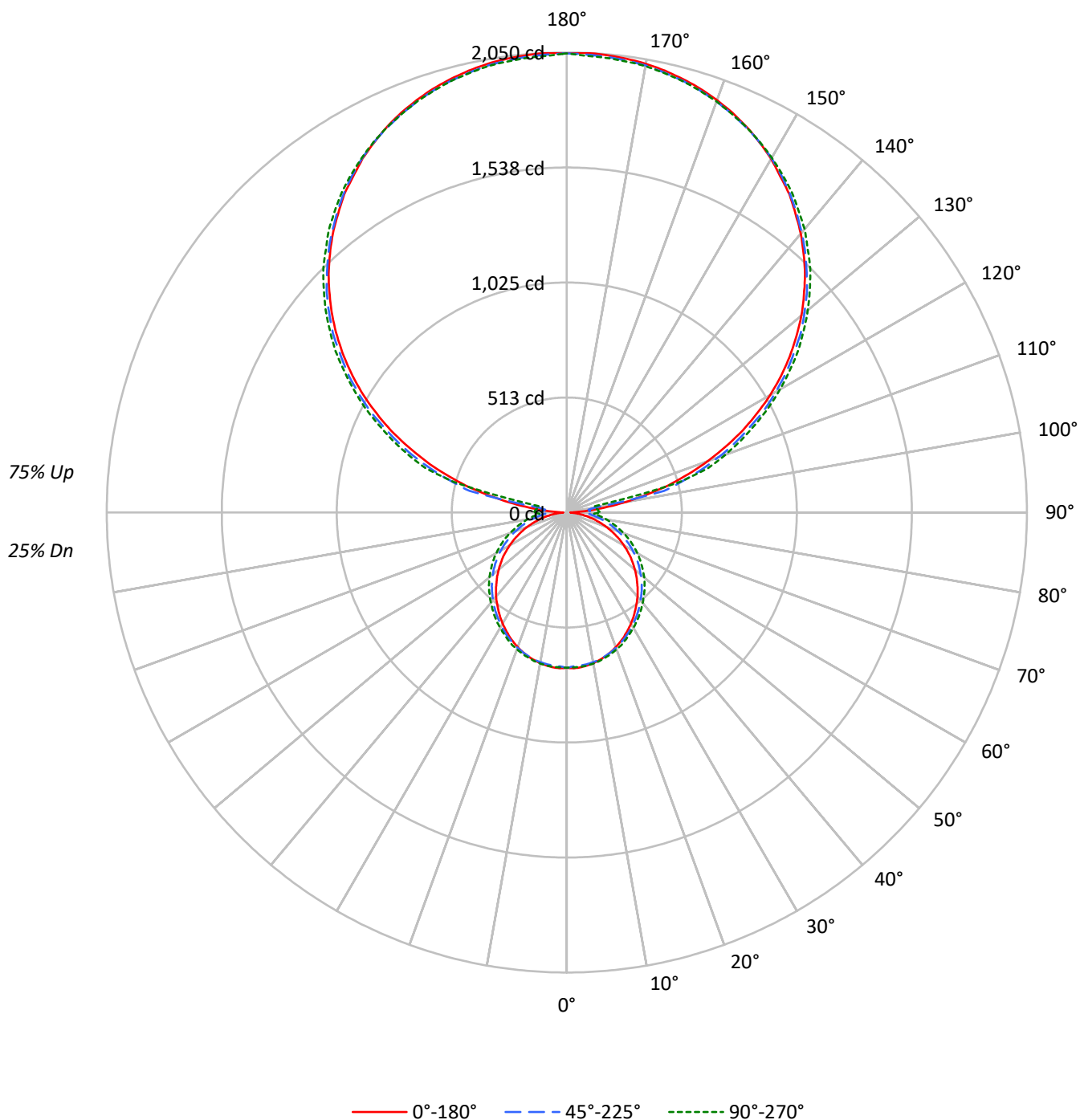
Lumens per Lamp: N/A
Luminaire Lumens: 8694.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	87	83	80	81	78	75	72	60	58	56	44	42	41	29	28	27	20
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	23	22	16
3	76	66	59	54	67	59	53	48	46	42	38	33	31	28	22	20	19	14
4	69	59	51	45	61	52	46	41	40	36	32	30	26	24	19	17	16	12
5	63	52	44	38	56	46	40	35	36	31	27	26	23	21	17	15	14	10
6	58	46	38	33	51	41	35	30	32	27	24	24	20	18	16	14	12	9
7	54	42	34	28	47	37	31	26	29	24	21	21	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 5545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	0.8
10°-20°	187.8	2.2
20°-30°	284.0	3.3
30°-40°	343.6	4.0
40°-50°	363.2	4.2
50°-60°	341.9	3.9
60°-70°	283.7	3.3
70°-80°	199.1	2.3
80°-90°	116.5	1.3
90°-100°	134.7	1.5
100°-110°	496.7	5.7
110°-120°	887.2	10.2
120°-130°	1102.9	12.7
130°-140°	1167.9	13.4
140°-150°	1086.1	12.5
150°-160°	874.6	10.1
160°-170°	564.0	6.5
170°-180°	194.4	2.2
0°-30°	537.4	6.2
0°-40°	881.0	10.1
0°-60°	1586.1	18.2
0°-90°	2185.3	25.1
90°-120°	1518.7	17.5
90°-150°	4875.6	56.1
90°-180°	6509.0	74.9
0°-180°	8694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	17	65	110	142	151	13
95°	94	68	101	131	140	112
105°	468	492	528	562	513	490
115°	865	876	899	920	925	851
125°	1212	1217	1234	1253	1259	1083
135°	1501	1500	1511	1527	1534	1157
145°	1730	1734	1734	1740	1746	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°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	17.0	64.8	110.4	142.0	151.3
92.5°	34.6	58.6	104.2	135.1	141.3
95°	94.3	67.7	101.1	131.1	139.7
97.5°	170.0	226.1	97.2	125.0	133.5
100°	259.5	307.2	126.2	121.1	128.0
102.5°	360.5	395.9	443.7	119.6	125.8
105°	467.6	492.3	528.5	561.7	512.8
107.5°	567.1	584.8	622.7	649.6	661.2
110°	667.3	682.6	719.0	739.9	750.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	764.4	782.9	811.5	827.0	839.3
115°	864.6	876.2	899.4	919.6	925.0
117.5°	954.9	965.7	993.5	1008.3	1014.5
120°	1046.0	1054.4	1075.4	1093.9	1097.1
122.5°	1131.7	1134.7	1158.7	1175.7	1178.1
125°	1212.0	1217.3	1233.6	1252.9	1259.2
127.5°	1290.0	1290.8	1313.9	1326.4	1330.2
130°	1364.2	1364.9	1381.9	1397.5	1402.1
132.5°	1433.1	1435.3	1450.7	1465.5	1468.6
135°	1501.1	1499.6	1511.2	1526.7	1534.3
137.5°	1562.3	1561.6	1572.4	1587.0	1589.4
140°	1622.0	1624.4	1628.1	1642.8	1648.3
142.5°	1674.9	1681.0	1681.7	1693.3	1696.4
145°	1730.0	1733.7	1733.7	1739.9	1746.0
147.5°	1772.8	1781.2	1779.7	1782.0	1786.6
150°	1820.2	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)