

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: P1034508

Luminaire Tested: S125DIW-B375D1560UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034508
REPORT IS A COMBINATION OF REPORTS P1003540 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1560UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

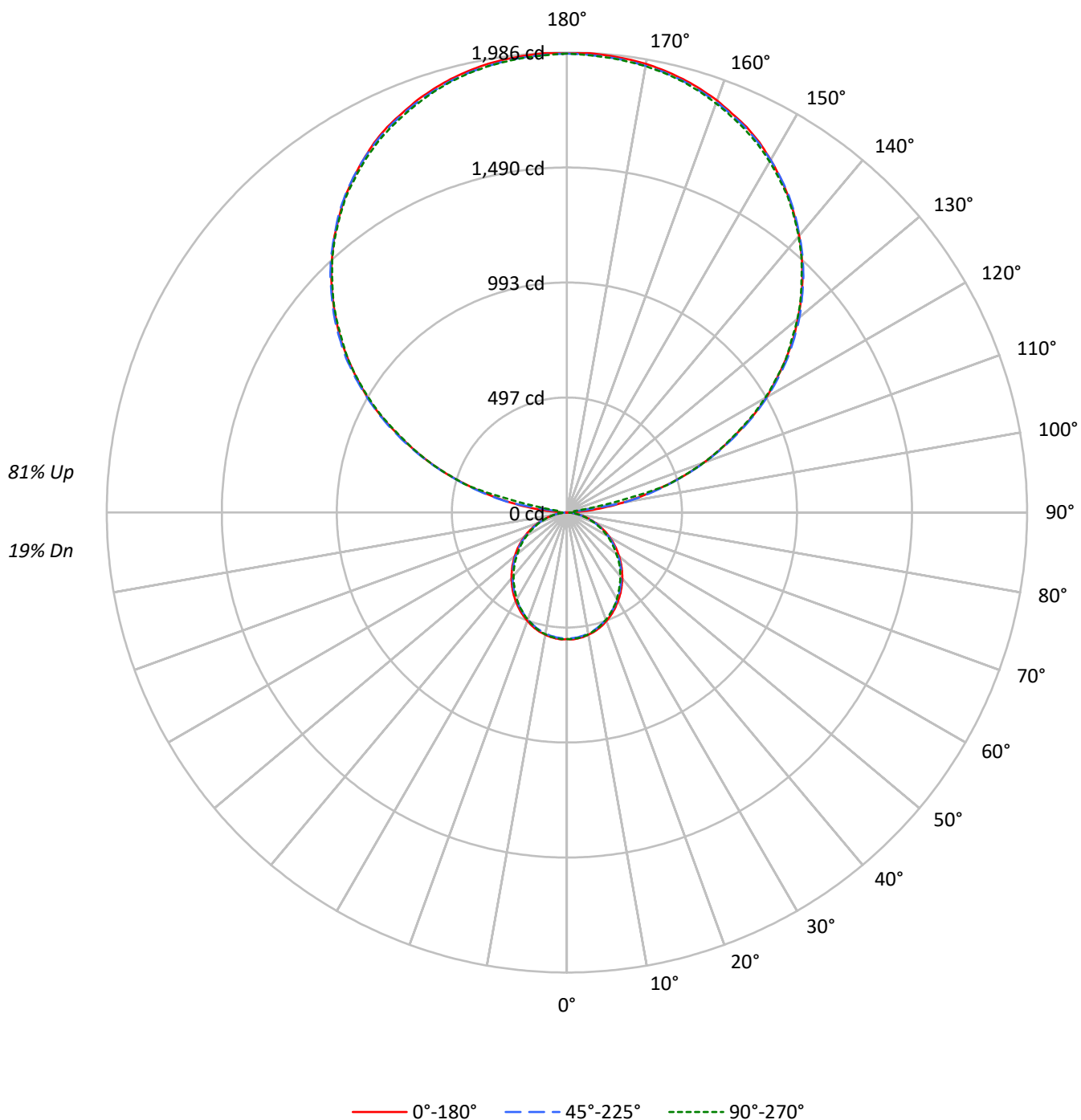
Lumens per Lamp: N/A
Luminaire Lumens: 7512.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	24	23
2	83	76	70	65	73	67	62	58	50	47	45	35	33	32	21	20	19
3	75	66	59	54	66	59	53	48	44	41	37	31	29	27	19	18	17
4	69	59	51	45	60	52	46	41	39	35	32	28	25	23	17	15	14
5	63	52	44	39	55	46	40	35	35	31	27	25	22	20	15	14	12
6	58	46	39	33	51	41	35	30	31	27	23	22	19	17	14	12	11
7	53	42	34	29	47	37	31	26	28	24	20	20	17	15	12	11	10
8	49	38	30	25	43	34	27	23	26	21	18	18	15	13	11	10	9
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	8
10	43	31	24	20	38	28	22	18	21	17	14	15	13	11	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	0.7
10°-20°	145.7	1.9
20°-30°	215.1	2.9
30°-40°	251.0	3.3
40°-50°	252.1	3.4
50°-60°	221.3	2.9
60°-70°	164.8	2.2
70°-80°	94.1	1.3
80°-90°	30.1	0.4
90°-100°	67.2	0.9
100°-110°	447.2	6.0
110°-120°	805.2	10.7
120°-130°	1033.6	13.8
130°-140°	1111.6	14.8
140°-150°	1043.3	13.9
150°-160°	843.9	11.2
160°-170°	545.8	7.3
170°-180°	188.2	2.5
0°-30°	412.5	5.5
0°-40°	663.5	8.8
0°-60°	1136.8	15.1
0°-90°	1425.9	19.0
90°-120°	1319.6	17.6
90°-150°	4508.1	60.0
90°-180°	6086.0	81.0
0°-180°	7512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	2	13	24	31	35	6
95°	84	79	24	31	31	103
105°	432	438	438	438	436	457
115°	811	818	820	814	805	804
125°	1153	1163	1163	1157	1153	1030
135°	1438	1447	1444	1441	1432	1109
145°	1667	1670	1670	1671	1663	1043
155°	1836	1827	1830	1834	1823	846
165°	1937	1928	1930	1939	1927	547
175°	1981	1972	1974	1986	1972	189
180°	1981	1981	1981	1981	1981	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	1.5	13.2	23.5	30.8	35.2
92.5°	27.9	14.7	23.5	30.8	32.3
95°	83.7	79.3	23.5	30.8	30.8
97.5°	157.2	166.0	26.4	29.4	30.8
100°	245.3	249.7	255.6	36.7	30.8
102.5°	334.9	340.7	343.7	346.6	223.2
105°	431.8	437.7	437.7	437.7	436.2
107.5°	531.7	531.7	534.6	536.1	530.2
110°	628.6	628.6	631.5	627.1	628.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.7	724.1	725.5	719.7	716.7
115°	810.7	818.1	819.5	813.7	804.8
117.5°	906.2	906.2	912.1	903.3	900.3
120°	994.3	992.8	997.2	994.3	987.0
122.5°	1072.2	1079.5	1081.0	1078.0	1069.2
125°	1152.9	1163.2	1163.2	1157.3	1152.9
127.5°	1230.8	1238.1	1236.6	1233.7	1222.0
130°	1301.3	1308.6	1310.1	1305.7	1298.3
132.5°	1371.8	1380.6	1376.2	1376.2	1368.8
135°	1437.9	1446.7	1443.7	1440.8	1432.0
137.5°	1499.5	1508.4	1505.4	1505.4	1498.1
140°	1559.8	1562.7	1561.2	1564.2	1555.4
142.5°	1614.1	1615.6	1618.5	1618.5	1609.7
145°	1667.0	1669.9	1669.9	1671.4	1662.6
147.5°	1714.0	1714.0	1715.4	1716.9	1706.6
150°	1758.0	1755.1	1758.0	1761.0	1749.2
152.5°	1800.6	1793.3	1796.2	1799.2	1788.9
155°	1835.9	1827.1	1830.0	1834.4	1822.7
157.5°	1863.8	1859.4	1859.4	1863.8	1852.0
160°	1893.2	1884.3	1885.8	1891.7	1879.9
162.5°	1916.7	1907.8	1909.3	1918.1	1904.9
165°	1937.2	1928.4	1929.9	1938.7	1926.9
167.5°	1953.4	1944.6	1946.0	1956.3	1943.1
170°	1966.6	1956.3	1957.8	1969.5	1956.3
172.5°	1975.4	1965.1	1968.1	1978.3	1965.1
175°	1981.3	1972.5	1973.9	1985.7	1972.5
177.5°	1985.7	1976.9	1978.3	1988.6	1976.9
180°	1981.3	1981.3	1981.3	1981.3	1981.3

(END OF REPORT)