

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: P1035926

Luminaire Tested: S125RDIW-B375D1560UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035926
REPORT IS A COMBINATION OF REPORTS P1006488 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1560UB50-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

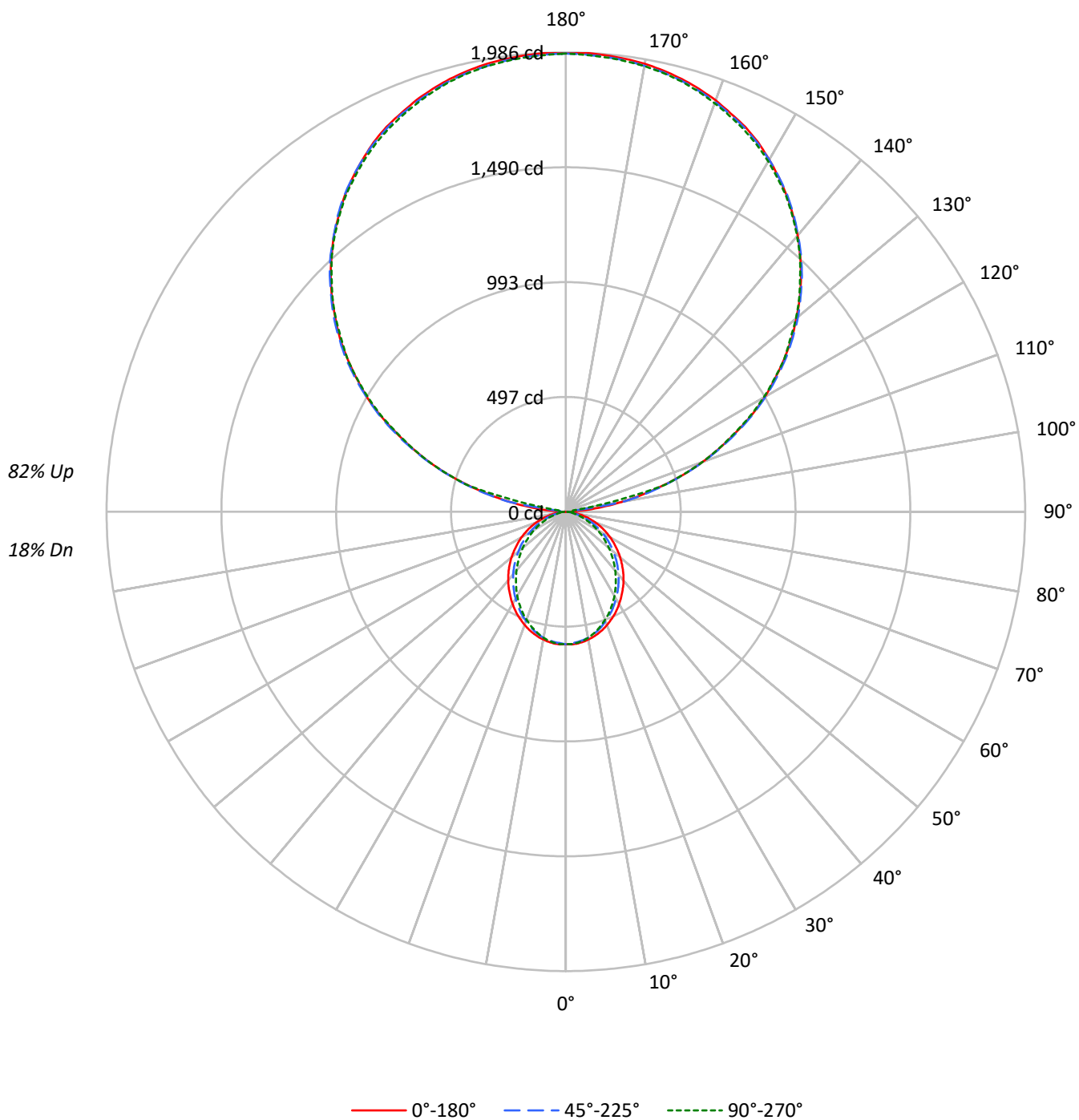
Lumens per Lamp: N/A
Luminaire Lumens: 7442.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	100	100	100	100	88	88	88	88	66	66	66	45	45	45	27	27	27	15	15	15
1	91	87	83	80	80	76	73	71	57	56	54	40	39	38	24	23	23	15	15	15
2	83	76	70	65	73	67	62	58	50	47	45	35	33	32	21	20	19	13	13	13
3	75	66	60	54	66	59	53	48	44	41	37	31	29	27	19	18	16	11	11	11
4	69	59	51	46	60	52	46	41	39	35	32	28	25	23	17	15	14	10	10	10
5	63	52	45	39	55	46	40	35	35	31	27	25	22	20	15	14	12	8	8	8
6	58	47	39	33	51	41	35	30	31	27	24	22	19	17	14	12	11	7	7	7
7	53	42	34	29	47	37	31	26	28	24	21	20	17	15	12	11	10	7	7	7
8	49	38	31	25	43	34	27	23	26	21	18	18	15	13	11	10	9	6	6	6
9	46	34	27	22	40	31	25	20	23	19	16	17	14	12	10	9	8	5	5	5
10	43	31	24	20	38	28	22	18	22	17	14	15	13	11	10	8	7	5	5	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3669	3669	3669
5°	3670	3578	3584
10°	3634	3487	3457
15°	3582	3361	3290
20°	3519	3210	3115
25°	3446	3061	2928
30°	3356	2898	2732
35°	3265	2733	2523
40°	3179	2562	2319
45°	3075	2379	2105
50°	2969	2184	1888
55°	2845	1993	1662
60°	2721	1774	1428
65°	2570	1528	1176
70°	2396	1243	925
75°	2156	935	675
80°	1816	605	455
85°	1361	324	257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	0.7
10°-20°	150.6	2.0
20°-30°	218.4	2.9
30°-40°	248.8	3.3
40°-50°	242.5	3.3
50°-60°	204.1	2.7
60°-70°	143.0	1.9
70°-80°	73.3	1.0
80°-90°	21.2	0.3
90°-100°	67.2	0.9
100°-110°	447.2	6.0
110°-120°	805.2	10.8
120°-130°	1033.6	13.9
130°-140°	1111.6	14.9
140°-150°	1043.3	14.0
150°-160°	843.9	11.3
160°-170°	545.8	7.3
170°-180°	188.2	2.5
0°-30°	422.9	5.7
0°-40°	671.7	9.0
0°-60°	1118.4	15.0
0°-90°	1355.9	18.2
90°-120°	1319.6	17.7
90°-150°	4508.1	60.6
90°-180°	6086.0	81.8
0°-180°	7442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	572	570	565	570	569	54
15°	544	541	532	532	528	153
25°	493	487	471	465	460	227
35°	425	414	395	382	376	266
45°	348	335	311	294	288	268
55°	264	250	226	206	199	236
65°	179	164	141	124	117	177
75°	95	82	64	54	52	101
85°	24	16	14	13	13	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°	572.7	572.7	572.7	572.7	572.7
2.5°	574.0	572.7	568.3	572.7	572.2
5°	571.8	570.1	565.3	569.6	568.8
7.5°	567.5	565.7	560.1	563.6	562.7
10°	561.0	559.7	553.6	554.9	553.6
12.5°	553.6	551.9	543.3	544.1	542.0
15°	543.7	541.1	532.0	531.6	527.7
17.5°	533.3	529.4	518.6	516.4	513.4
20°	520.8	516.4	502.6	500.4	496.5
22.5°	506.9	502.6	487.9	483.1	480.1
25°	493.1	486.6	470.6	465.0	460.2
27.5°	477.5	469.7	452.9	445.5	440.7
30°	460.2	452.0	433.8	423.9	420.0
32.5°	443.3	433.4	414.8	403.5	398.4
35°	424.7	414.4	394.9	382.4	376.3
37.5°	407.0	394.5	374.6	359.9	353.8
40°	388.0	375.0	354.2	337.8	332.6
42.5°	368.1	354.7	333.0	317.5	309.3
45°	347.8	335.2	311.4	294.1	287.6
47.5°	326.6	313.6	289.8	272.1	264.7
50°	306.7	292.4	267.7	249.6	243.1
52.5°	285.0	270.3	247.4	227.5	221.0
55°	263.8	250.0	225.8	206.3	199.4
57.5°	242.2	227.5	204.2	185.1	179.1
60°	221.5	206.3	183.0	163.9	157.4
62.5°	199.4	185.1	161.3	144.0	137.5
65°	178.6	163.9	141.0	123.7	117.2
67.5°	157.9	143.2	121.1	104.7	99.5
70°	136.7	122.0	100.3	86.9	81.7
72.5°	115.9	101.6	81.7	69.6	66.6
75°	95.2	82.2	64.0	54.5	51.5
77.5°	74.0	63.6	48.4	41.1	38.5
80°	56.2	45.8	33.7	29.8	29.0
82.5°	38.9	29.8	22.5	21.2	20.8
85°	23.8	16.0	13.8	13.4	13.0
87.5°	9.9	6.9	6.5	6.5	6.1
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)