

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: P1035922

Luminaire Tested: S125RDIW-B375D1560UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035922
REPORT IS A COMBINATION OF REPORTS P1006482 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1560UB40-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

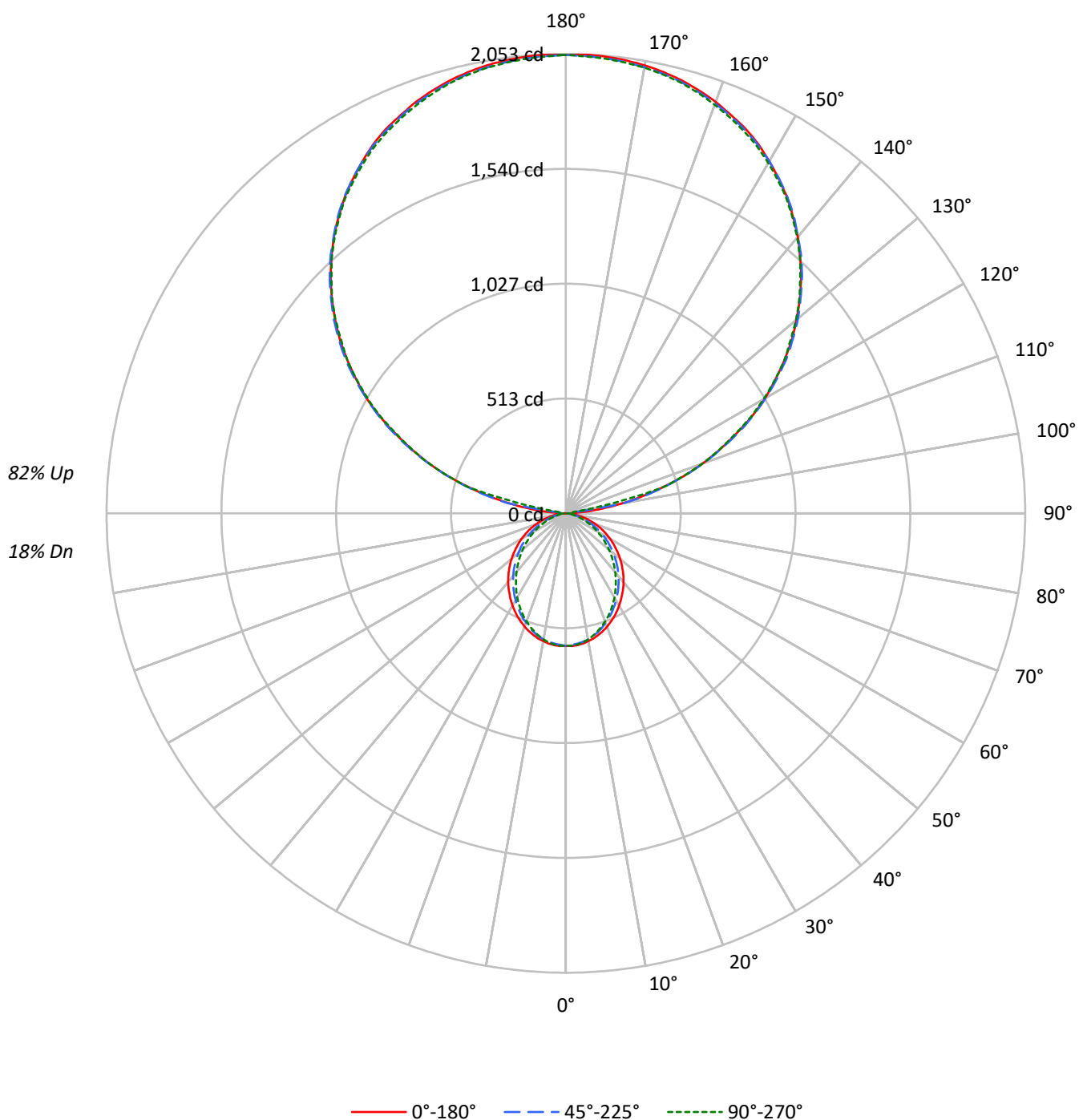
Lumens per Lamp: N/A
Luminaire Lumens: 7695.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3794	3794	3794
5°	3794	3699	3705
10°	3758	3606	3575
15°	3704	3476	3402
20°	3639	3319	3221
25°	3562	3165	3028
30°	3471	2997	2825
35°	3376	2826	2609
40°	3287	2650	2397
45°	3179	2460	2177
50°	3069	2258	1951
55°	2942	2061	1719
60°	2813	1834	1477
65°	2658	1580	1216
70°	2477	1287	957
75°	2228	967	697
80°	1878	627	471
85°	1407	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	0.7
10°-20°	155.7	2.0
20°-30°	225.8	2.9
30°-40°	257.3	3.3
40°-50°	250.8	3.3
50°-60°	211.0	2.7
60°-70°	147.9	1.9
70°-80°	75.8	1.0
80°-90°	22.0	0.3
90°-100°	69.5	0.9
100°-110°	462.4	6.0
110°-120°	832.6	10.8
120°-130°	1068.7	13.9
130°-140°	1149.4	14.9
140°-150°	1078.8	14.0
150°-160°	872.6	11.3
160°-170°	564.3	7.3
170°-180°	194.6	2.5
0°-30°	437.3	5.7
0°-40°	694.6	9.0
0°-60°	1156.4	15.0
0°-90°	1402.0	18.2
90°-120°	1364.5	17.7
90°-150°	4661.4	60.6
90°-180°	6293.0	81.8
0°-180°	7695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	591	589	584	589	588	56
15°	562	560	550	550	546	159
25°	510	503	487	481	476	235
35°	439	428	408	395	389	275
45°	360	347	322	304	297	277
55°	273	258	234	213	206	244
65°	185	170	146	128	121	183
75°	98	85	66	56	53	104
85°	25	16	14	14	13	27
90°	2	14	24	32	36	6
95°	87	82	24	32	32	106
105°	446	453	453	453	451	473
115°	838	846	847	841	832	831
125°	1192	1203	1203	1197	1192	1065
135°	1487	1496	1493	1490	1481	1146
145°	1724	1727	1727	1728	1719	1078
155°	1898	1889	1892	1897	1885	875
165°	2003	1994	1996	2005	1992	566
175°	2049	2040	2041	2053	2040	195
180°	2049	2049	2049	2049	2049	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.1	592.1	592.1	592.1	592.1
2.5°	593.5	592.1	587.7	592.1	591.7
5°	591.2	589.4	584.5	589.0	588.1
7.5°	586.8	585.0	579.2	582.7	581.8
10°	580.1	578.7	572.5	573.8	572.5
12.5°	572.5	570.7	561.7	562.6	560.4
15°	562.2	559.5	550.1	549.6	545.6
17.5°	551.4	547.4	536.2	534.0	530.9
20°	538.5	534.0	519.7	517.4	513.4
22.5°	524.2	519.7	504.5	499.6	496.4
25°	509.8	503.1	486.6	480.8	475.9
27.5°	493.7	485.7	468.3	460.6	455.7
30°	475.9	467.4	448.6	438.3	434.3
32.5°	458.4	448.1	428.9	417.3	411.9
35°	439.2	428.4	408.3	395.4	389.1
37.5°	420.8	407.9	387.3	372.1	365.8
40°	401.2	387.7	366.3	349.3	343.9
42.5°	380.6	366.7	344.4	328.3	319.8
45°	359.6	346.6	322.0	304.1	297.4
47.5°	337.7	324.2	299.6	281.3	273.7
50°	317.1	302.3	276.8	258.1	251.3
52.5°	294.7	279.5	255.8	235.2	228.5
55°	272.8	258.5	233.5	213.3	206.2
57.5°	250.4	235.2	211.1	191.4	185.2
60°	229.0	213.3	189.2	169.5	162.8
62.5°	206.2	191.4	166.8	148.9	142.2
65°	184.7	169.5	145.8	127.9	121.2
67.5°	163.2	148.0	125.2	108.2	102.9
70°	141.3	126.1	103.8	89.9	84.5
72.5°	119.9	105.1	84.5	72.0	68.9
75°	98.4	85.0	66.2	56.4	53.2
77.5°	76.5	65.7	50.1	42.5	39.8
80°	58.1	47.4	34.9	30.9	30.0
82.5°	40.3	30.9	23.3	21.9	21.5
85°	24.6	16.5	14.3	13.9	13.4
87.5°	10.3	7.2	6.7	6.7	6.3
90°	1.5	13.7	24.3	31.9	36.4
92.5°	28.9	15.2	24.3	31.9	33.4
95°	86.6	82.0	24.3	31.9	31.9
97.5°	162.5	171.6	27.3	30.4	31.9
100°	253.6	258.2	264.2	38.0	31.9
102.5°	346.2	352.3	355.4	358.4	230.8
105°	446.5	452.6	452.6	452.6	451.0
107.5°	549.7	549.7	552.8	554.3	548.2
110°	650.0	650.0	653.0	648.5	650.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	744.1	748.7	750.2	744.1	741.1
115°	838.3	845.9	847.4	841.3	832.2
117.5°	937.0	937.0	943.1	934.0	930.9
120°	1028.1	1026.6	1031.1	1028.1	1020.5
122.5°	1108.6	1116.2	1117.7	1114.7	1105.6
125°	1192.1	1202.8	1202.8	1196.7	1192.1
127.5°	1272.6	1280.2	1278.7	1275.6	1263.5
130°	1345.5	1353.1	1354.6	1350.1	1342.5
132.5°	1418.4	1427.5	1423.0	1423.0	1415.4
135°	1486.7	1495.8	1492.8	1489.8	1480.7
137.5°	1550.5	1559.6	1556.6	1556.6	1549.0
140°	1612.8	1615.8	1614.3	1617.3	1608.2
142.5°	1669.0	1670.5	1673.5	1673.5	1664.4
145°	1723.6	1726.7	1726.7	1728.2	1719.1
147.5°	1772.2	1772.2	1773.8	1775.3	1764.6
150°	1817.8	1814.8	1817.8	1820.8	1808.7
152.5°	1861.8	1854.2	1857.3	1860.3	1849.7
155°	1898.3	1889.2	1892.2	1896.8	1884.6
157.5°	1927.1	1922.6	1922.6	1927.1	1915.0
160°	1957.5	1948.4	1949.9	1956.0	1943.8
162.5°	1981.8	1972.7	1974.2	1983.3	1969.7
165°	2003.1	1994.0	1995.5	2004.6	1992.4
167.5°	2019.8	2010.7	2012.2	2022.8	2009.1
170°	2033.4	2022.8	2024.3	2036.5	2022.8
172.5°	2042.6	2031.9	2035.0	2045.6	2031.9
175°	2048.6	2039.5	2041.0	2053.2	2039.5
177.5°	2053.2	2044.1	2045.6	2056.2	2044.1
180°	2048.6	2048.6	2048.6	2048.6	2048.6

(END OF REPORT)