

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: P1035923

Luminaire Tested: S125RDIW-B375D1560UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035923
REPORT IS A COMBINATION OF REPORTS P1006483 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-F1
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

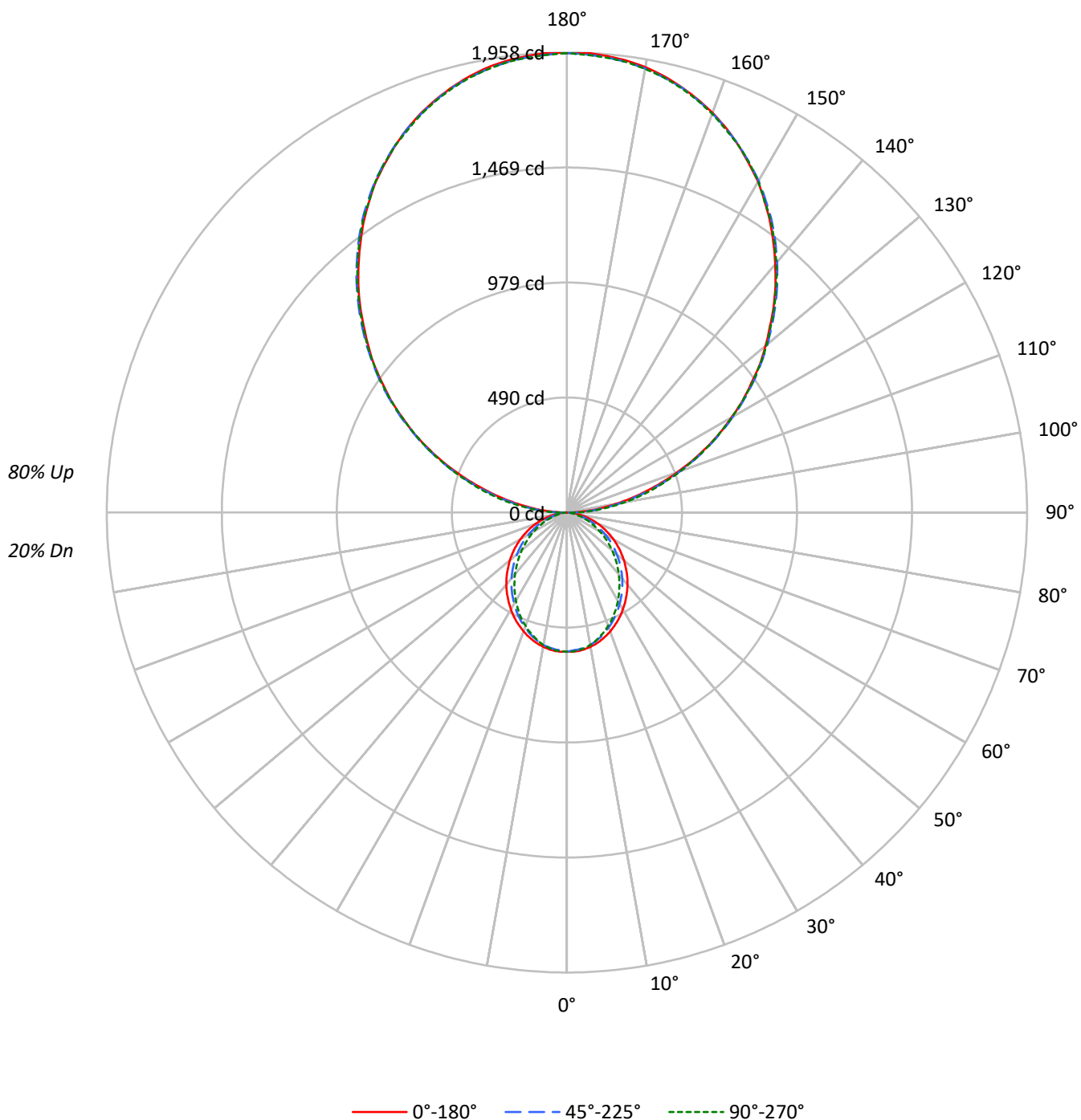
Lumens per Lamp: N/A
Luminaire Lumens: 6859.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	89	89	89	89	67	67	67	47	47	47	29	29	29
1	91	87	83	80	81	77	74	71	59	57	55	41	40	39	26	25	25
2	83	76	70	66	73	68	63	59	51	48	45	36	35	33	23	22	21
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9
9	46	35	28	23	41	31	25	21	24	20	17	17	15	12	11	10	8
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8

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	0.8
10°-20°	155.7	2.3
20°-30°	225.8	3.3
30°-40°	257.3	3.8
40°-50°	250.8	3.7
50°-60°	211.0	3.1
60°-70°	147.9	2.2
70°-80°	75.8	1.1
80°-90°	22.0	0.3
90°-100°	130.0	1.9
100°-110°	386.3	5.6
110°-120°	655.1	9.6
120°-130°	862.4	12.6
130°-140°	966.4	14.1
140°-150°	947.2	13.8
150°-160°	795.6	11.6
160°-170°	528.9	7.7
170°-180°	185.1	2.7
0°-30°	437.3	6.4
0°-40°	694.6	10.1
0°-60°	1156.4	16.9
0°-90°	1402.1	20.4
90°-120°	1171.4	17.1
90°-150°	3947.4	57.5
90°-180°	5457.0	79.6
0°-180°	6859.0	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	8
95°	99	102	117	128	131	103
105°	347	354	364	373	377	370
115°	656	662	665	663	662	649
125°	957	966	968	965	963	858
135°	1245	1254	1255	1255	1249	959
145°	1508	1514	1519	1519	1514	943
155°	1726	1726	1727	1733	1726	795
165°	1876	1873	1875	1881	1872	529
175°	1951	1945	1945	1954	1943	185
180°	1955	1955	1955	1955	1955	

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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	32.0	36.5
92.5°	45.6	53.3	67.0	77.6	80.6
95°	98.9	101.9	117.2	127.8	130.9
97.5°	152.2	153.7	175.0	184.1	185.6
100°	213.0	213.0	232.8	246.5	249.5
102.5°	278.5	286.1	293.7	308.9	313.4
105°	346.9	354.5	363.7	372.8	377.4
107.5°	421.5	429.1	436.7	441.3	441.3
110°	499.1	506.7	511.3	515.8	514.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.2	581.3	587.3	588.9	585.8
115°	655.8	661.9	664.9	663.4	661.9
117.5°	734.9	736.5	739.5	741.0	734.9
120°	808.0	815.6	817.1	817.1	811.0
122.5°	887.1	888.6	893.2	891.7	887.1
125°	957.1	966.2	967.7	964.7	963.2
127.5°	1034.7	1039.3	1040.8	1039.3	1036.2
130°	1103.2	1110.8	1113.8	1112.3	1109.2
132.5°	1171.6	1185.3	1183.8	1182.3	1177.7
135°	1244.7	1253.8	1255.3	1255.3	1249.2
137.5°	1313.1	1322.3	1325.3	1326.8	1319.2
140°	1378.6	1386.2	1390.7	1393.8	1386.2
142.5°	1444.0	1450.1	1456.2	1457.7	1450.1
145°	1507.9	1514.0	1518.6	1518.6	1514.0
147.5°	1567.2	1571.8	1574.9	1579.4	1567.2
150°	1626.6	1625.1	1631.2	1631.2	1628.1
152.5°	1675.3	1678.3	1679.8	1684.4	1678.3
155°	1725.5	1725.5	1727.0	1733.1	1725.5
157.5°	1771.1	1768.1	1769.6	1775.7	1765.1
160°	1810.7	1806.1	1807.7	1813.7	1806.1
162.5°	1845.7	1842.7	1842.7	1850.3	1841.1
165°	1876.1	1873.1	1874.6	1880.7	1871.6
167.5°	1903.5	1897.4	1897.4	1906.6	1897.4
170°	1924.8	1918.7	1918.7	1927.9	1917.2
172.5°	1940.0	1934.0	1934.0	1943.1	1934.0
175°	1950.7	1944.6	1944.6	1953.7	1943.1
177.5°	1958.3	1952.2	1950.7	1959.8	1949.2
180°	1955.3	1955.3	1955.3	1955.3	1955.3

(END OF REPORT)