

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: P1035927

Luminaire Tested: S125RDIW-B375D1560UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035927
REPORT IS A COMBINATION OF REPORTS P1006489 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-F1
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

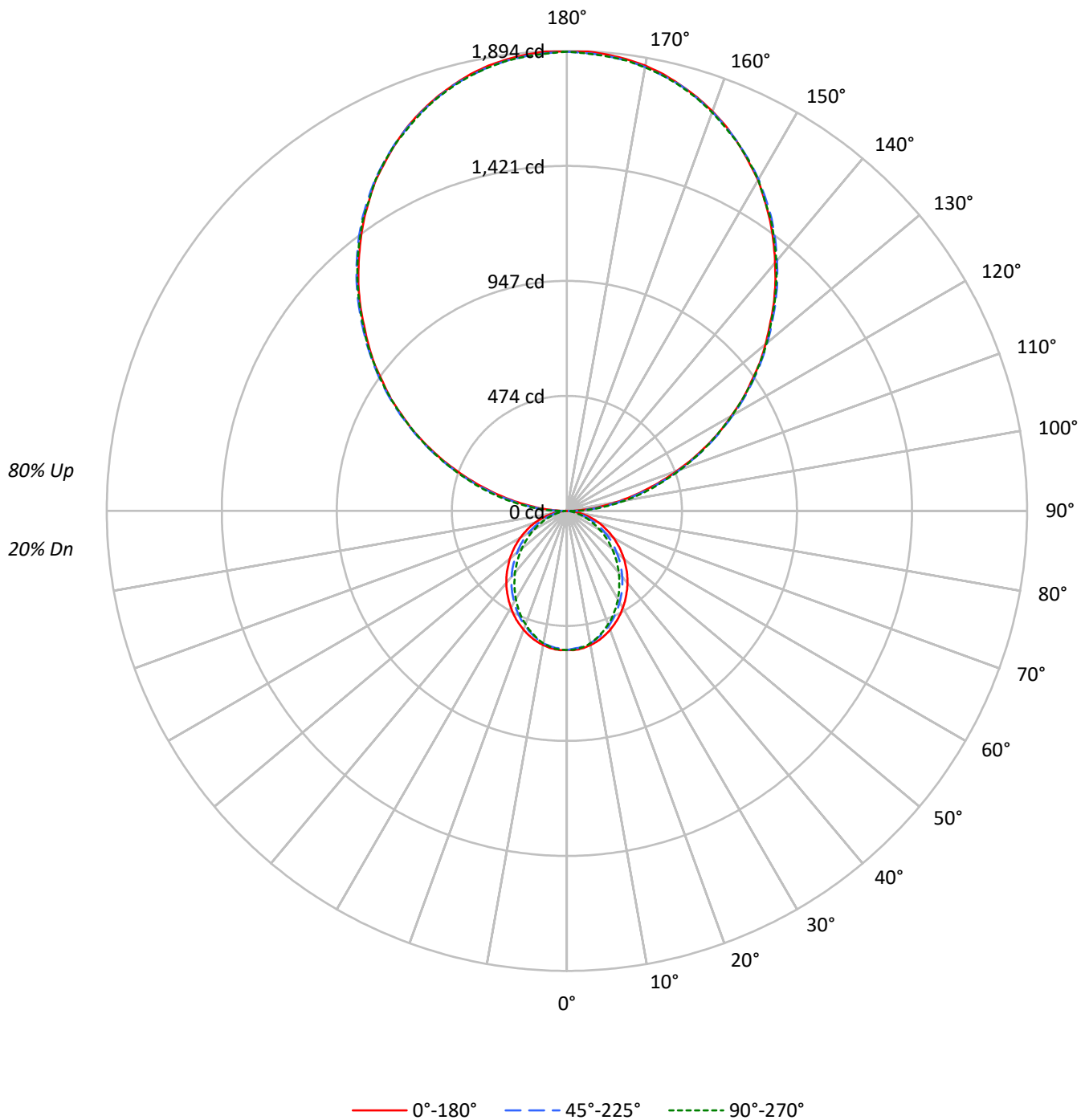
Lumens per Lamp: N/A
Luminaire Lumens: 6633.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
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	89	89	89	89	67	67	67	47	47	47	29	29	29	29	29	29
1	91	87	83	80	81	77	74	71	59	57	55	41	40	39	26	25	25	25	25	17
2	83	76	70	66	73	68	63	59	51	48	45	36	35	33	23	22	21	21	21	15
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	18	18	13
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	15	15	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	13	13	9
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	12	12	8
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	10	10	7
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	9	9	7
9	46	35	28	23	41	31	25	21	24	20	17	17	15	12	11	10	8	8	8	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	8	8	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	0.8
10°-20°	150.6	2.3
20°-30°	218.4	3.3
30°-40°	248.8	3.8
40°-50°	242.5	3.7
50°-60°	204.1	3.1
60°-70°	143.0	2.2
70°-80°	73.3	1.1
80°-90°	21.2	0.3
90°-100°	125.7	1.9
100°-110°	373.5	5.6
110°-120°	633.5	9.6
120°-130°	834.0	12.6
130°-140°	934.5	14.1
140°-150°	916.0	13.8
150°-160°	769.4	11.6
160°-170°	511.5	7.7
170°-180°	179.0	2.7
0°-30°	422.9	6.4
0°-40°	671.7	10.1
0°-60°	1118.4	16.9
0°-90°	1355.9	20.4
90°-120°	1132.7	17.1
90°-150°	3817.2	57.5
90°-180°	5277.0	79.6
0°-180°	6633.0	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	8
95°	96	99	113	124	126	100
105°	336	343	352	360	365	358
115°	634	640	643	642	640	627
125°	926	934	936	933	931	829
135°	1204	1212	1214	1214	1208	928
145°	1458	1464	1468	1468	1464	912
155°	1669	1669	1670	1676	1669	769
165°	1814	1811	1813	1819	1810	512
175°	1886	1880	1880	1889	1879	179
180°	1891	1891	1891	1891	1891	

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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	30.9	35.3
92.5°	44.1	51.5	64.7	75.0	78.0
95°	95.6	98.6	113.3	123.6	126.5
97.5°	147.1	148.6	169.2	178.0	179.5
100°	206.0	206.0	225.1	238.4	241.3
102.5°	269.3	276.6	284.0	298.7	303.1
105°	335.5	342.8	351.7	360.5	364.9
107.5°	407.6	414.9	422.3	426.7	426.7
110°	482.6	490.0	494.4	498.8	497.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	559.1	562.1	568.0	569.4	566.5
115°	634.2	640.1	643.0	641.5	640.1
117.5°	710.7	712.2	715.1	716.6	710.7
120°	781.3	788.7	790.2	790.2	784.3
122.5°	857.8	859.3	863.7	862.3	857.8
125°	925.5	934.4	935.8	932.9	931.4
127.5°	1000.6	1005.0	1006.5	1005.0	1002.0
130°	1066.8	1074.1	1077.1	1075.6	1072.7
132.5°	1133.0	1146.2	1144.8	1143.3	1138.9
135°	1203.6	1212.5	1213.9	1213.9	1208.0
137.5°	1269.8	1278.7	1281.6	1283.1	1275.7
140°	1333.1	1340.5	1344.9	1347.8	1340.5
142.5°	1396.4	1402.3	1408.2	1409.6	1402.3
145°	1458.2	1464.1	1468.5	1468.5	1464.1
147.5°	1515.6	1520.0	1522.9	1527.4	1515.6
150°	1573.0	1571.5	1577.4	1577.4	1574.4
152.5°	1620.1	1623.0	1624.5	1628.9	1623.0
155°	1668.6	1668.6	1670.1	1676.0	1668.6
157.5°	1712.8	1709.8	1711.3	1717.2	1706.9
160°	1751.0	1746.6	1748.1	1754.0	1746.6
162.5°	1784.9	1781.9	1781.9	1789.3	1780.4
165°	1814.3	1811.3	1812.8	1818.7	1809.9
167.5°	1840.8	1834.9	1834.9	1843.7	1834.9
170°	1861.4	1855.5	1855.5	1864.3	1854.0
172.5°	1876.1	1870.2	1870.2	1879.0	1870.2
175°	1886.4	1880.5	1880.5	1889.3	1879.0
177.5°	1893.7	1887.9	1886.4	1895.2	1884.9
180°	1890.8	1890.8	1890.8	1890.8	1890.8

(END OF REPORT)