

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: P1035319

Luminaire Tested: S125DIW-B375D1560UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035319
REPORT IS A COMBINATION OF REPORTS P1003575 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1560UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

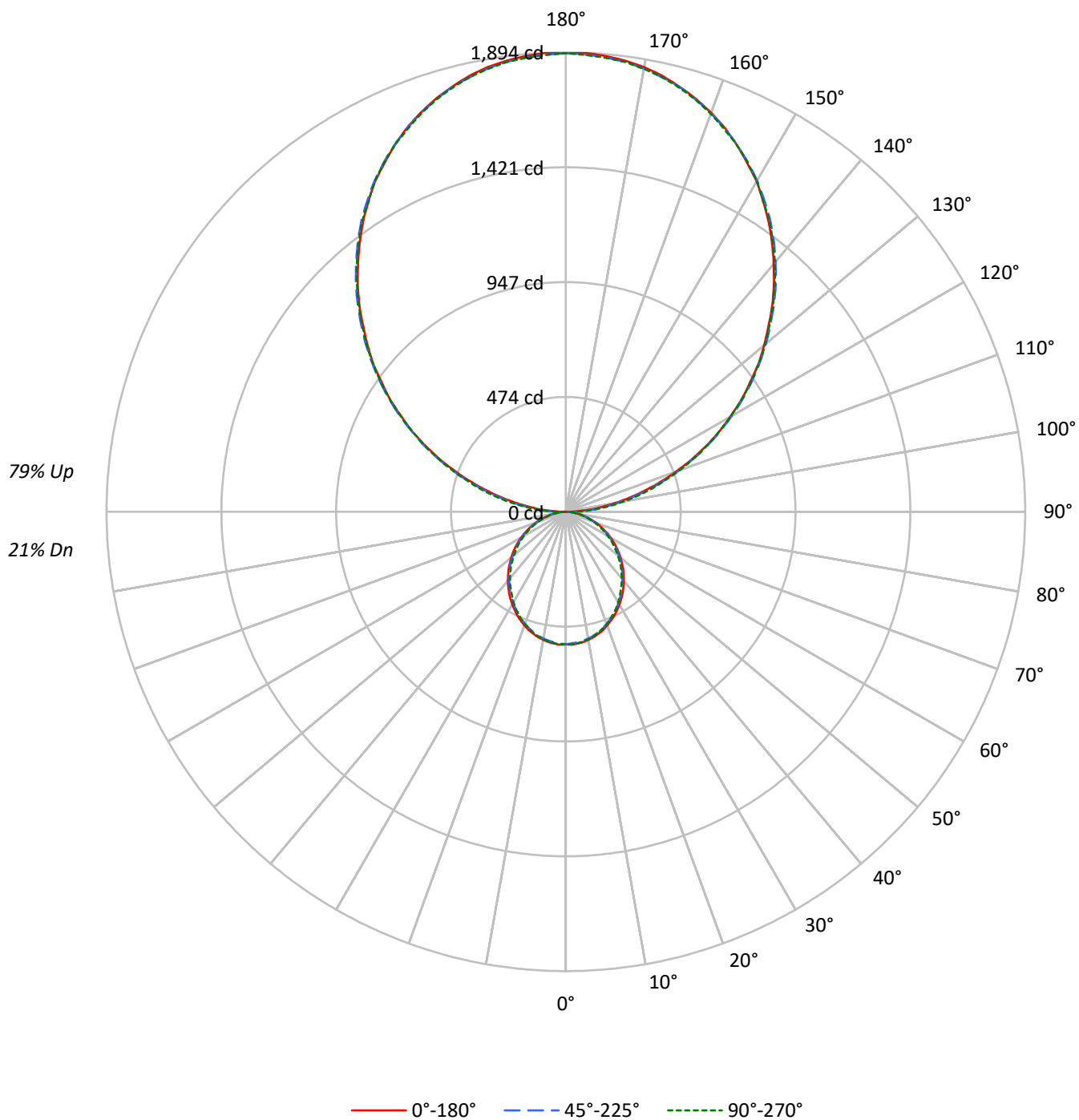
Lumens per Lamp: N/A
Luminaire Lumens: 6703.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1035319

CATALOG NUMBER: S125DIW-B375D1560UB50-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1035319

CATALOG NUMBER: S125DIW-B375D1560UB50-4F0-XX-W2A-F1

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	48	48	48	30	30	30	30	30	21
1	91	87	83	80	81	77	74	71	59	57	55	42	41	39	26	26	25	25	25	18
2	83	76	70	65	73	67	63	58	51	48	45	37	35	33	23	22	21	21	21	15
3	76	67	60	54	67	59	53	49	45	41	38	32	30	28	20	19	18	18	18	13
4	69	59	51	46	61	52	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	20	16	15	13	13	13	9
6	58	47	39	33	51	42	35	30	32	27	24	23	20	18	15	13	12	12	12	8
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	13	12	10	10	10	7
8	50	38	31	25	44	34	28	23	26	22	18	19	16	14	12	11	9	9	9	7
9	46	34	27	22	41	31	25	20	24	19	16	17	14	12	11	10	8	8	8	6
10	43	31	25	20	38	28	22	18	22	18	15	16	13	11	10	9	7	7	7	5

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

TEST NUMBER: P1035319

CATALOG NUMBER: S125DIW-B375D1560UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	0.8
10°-20°	145.7	2.2
20°-30°	215.1	3.2
30°-40°	251.0	3.7
40°-50°	252.1	3.8
50°-60°	221.3	3.3
60°-70°	164.8	2.5
70°-80°	94.1	1.4
80°-90°	30.1	0.4
90°-100°	125.7	1.9
100°-110°	373.5	5.6
110°-120°	633.5	9.5
120°-130°	834.0	12.4
130°-140°	934.5	13.9
140°-150°	916.0	13.7
150°-160°	769.4	11.5
160°-170°	511.5	7.6
170°-180°	179.0	2.7
0°-30°	412.5	6.2
0°-40°	663.5	9.9
0°-60°	1136.8	17.0
0°-90°	1425.9	21.3
90°-120°	1132.7	16.9
90°-150°	3817.2	56.9
90°-180°	5277.0	78.7
0°-180°	6703.0	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	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	

TEST NUMBER: P1035319

CATALOG NUMBER: S125DIW-B375D1560UB50-4F0-XX-W2A-F1

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	30.9	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

TEST NUMBER: P1035319

CATALOG NUMBER: S125DIW-B375D1560UB50-4F0-XX-W2A-F1

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)