

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: P1035288

Luminaire Tested: S125DIW-B375D1340UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035288
REPORT IS A COMBINATION OF REPORTS P1003508 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

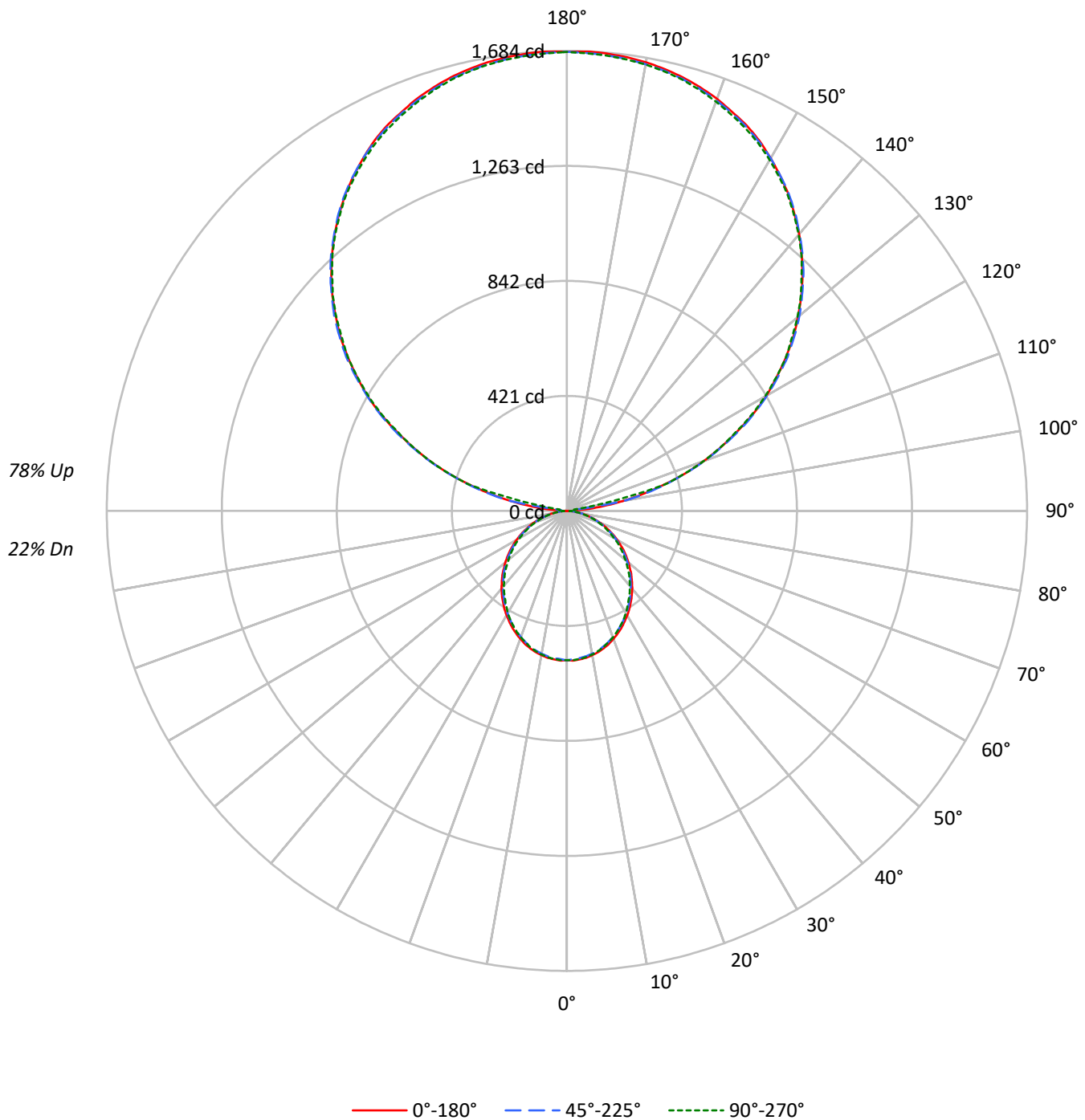
Lumens per Lamp: N/A
Luminaire Lumens: 6587.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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: P1035288

CATALOG NUMBER: S125DIW-B375D1340UB50-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1035288

CATALOG NUMBER: S125DIW-B375D1340UB50-4F0-XX-W2A-F

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	68	68	68	48	48	48	30	30	30
1	91	87	84	80	81	77	74	72	59	57	55	42	41	40	26	26	25
2	83	76	70	65	73	68	63	59	52	48	46	37	35	33	23	22	21
3	76	67	60	54	67	59	54	49	45	41	38	33	30	28	21	19	18
4	69	59	51	46	61	52	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	33	51	42	35	30	32	27	24	23	20	18	15	13	12
7	54	42	34	29	47	38	31	26	29	24	21	21	18	16	14	12	10
8	50	38	31	26	44	34	28	23	26	22	18	19	16	14	12	11	9
9	46	34	27	23	41	31	25	20	24	20	16	18	15	12	11	10	8
10	43	31	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8

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: P1035288

CATALOG NUMBER: S125DIW-B375D1340UB50-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	0.8
10°-20°	145.7	2.2
20°-30°	215.1	3.3
30°-40°	251.0	3.8
40°-50°	252.1	3.8
50°-60°	221.3	3.4
60°-70°	164.8	2.5
70°-80°	94.1	1.4
80°-90°	29.7	0.5
90°-100°	57.0	0.9
100°-110°	379.2	5.8
110°-120°	682.9	10.4
120°-130°	876.6	13.3
130°-140°	942.8	14.3
140°-150°	884.8	13.4
150°-160°	715.7	10.9
160°-170°	462.9	7.0
170°-180°	159.6	2.4
0°-30°	412.5	6.3
0°-40°	663.5	10.1
0°-60°	1136.8	17.3
0°-90°	1425.5	21.6
90°-120°	1119.2	17.0
90°-150°	3823.3	58.0
90°-180°	5162.0	78.4
0°-180°	6587.0	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°	1	11	20	26	30	5
95°	71	67	20	26	26	87
105°	366	371	371	371	370	388
115°	688	694	695	690	683	682
125°	978	986	986	982	978	873
135°	1219	1227	1224	1222	1214	940
145°	1414	1416	1416	1418	1410	884
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

TEST NUMBER: P1035288

CATALOG NUMBER: S125DIW-B375D1340UB50-4F0-XX-W2A-F

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°	1.2	11.2	19.9	26.2	29.9
92.5°	23.7	12.5	19.9	26.2	27.4
95°	71.0	67.3	19.9	26.2	26.2
97.5°	133.3	140.8	22.4	24.9	26.2
100°	208.0	211.7	216.7	31.1	26.2
102.5°	284.0	289.0	291.5	294.0	189.3
105°	366.2	371.2	371.2	371.2	369.9
107.5°	450.9	450.9	453.4	454.6	449.7
110°	533.1	533.1	535.6	531.9	533.1

TEST NUMBER: P1035288

CATALOG NUMBER: S125DIW-B375D1340UB50-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	610.3	614.1	615.3	610.3	607.8
115°	687.6	693.8	695.0	690.1	682.6
117.5°	768.5	768.5	773.5	766.0	763.5
120°	843.3	842.0	845.8	843.3	837.0
122.5°	909.3	915.5	916.8	914.3	906.8
125°	977.8	986.5	986.5	981.5	977.8
127.5°	1043.8	1050.0	1048.8	1046.3	1036.3
130°	1103.6	1109.8	1111.1	1107.3	1101.1
132.5°	1163.4	1170.8	1167.1	1167.1	1160.9
135°	1219.4	1226.9	1224.4	1221.9	1214.4
137.5°	1271.7	1279.2	1276.7	1276.7	1270.5
140°	1322.8	1325.3	1324.1	1326.5	1319.1
142.5°	1368.9	1370.1	1372.6	1372.6	1365.2
145°	1413.7	1416.2	1416.2	1417.5	1410.0
147.5°	1453.6	1453.6	1454.8	1456.1	1447.4
150°	1491.0	1488.5	1491.0	1493.5	1483.5
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)