

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: P1034368

Luminaire Tested: S125DIW-B1090D470UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034368
REPORT IS A COMBINATION OF REPORTS P1002939 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D470UB2750-4F0-XX-W2A-D_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

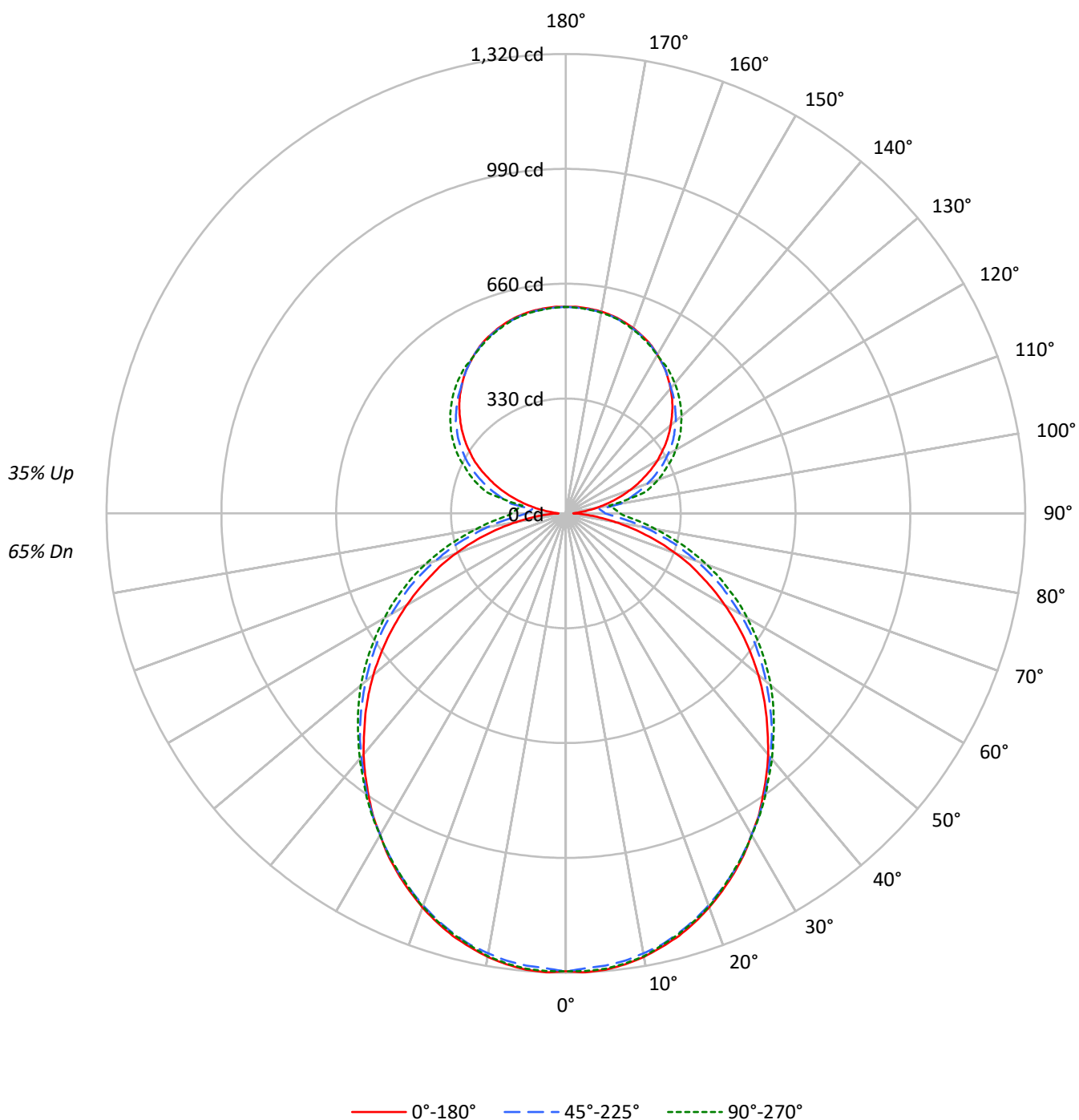
Lumens per Lamp: N/A
Luminaire Lumens: 5900.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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: P1034368

CATALOG NUMBER: S125DIW-B1090D470UB2750-4F0-XX-W2A-D_5000K

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	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65		
1	100	95	91	87	94	90	86	82	79	76	73	69	67	65	60	59	57	53		
2	91	83	76	70	85	78	72	67	69	64	60	60	57	54	52	50	47	43		
3	83	72	65	58	77	68	61	55	60	55	50	53	49	45	46	43	40	36		
4	76	64	56	49	71	60	53	47	53	47	42	47	42	38	41	37	34	31		
5	69	57	48	42	65	54	46	40	48	41	37	42	37	33	37	33	30	27		
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	33	29	26	23		
7	59	46	38	32	55	44	36	31	39	33	28	35	29	26	31	26	23	21		
8	55	42	34	28	51	40	32	27	36	29	25	32	27	23	28	24	21	18		
9	51	38	31	25	48	36	29	24	33	27	22	29	24	20	26	22	19	16		
10	48	35	28	23	45	33	27	22	30	24	20	27	22	19	24	20	17	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

TEST NUMBER: P1034368

CATALOG NUMBER: S125DIW-B1090D470UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.1
10°-20°	353.5	6.0
20°-30°	525.7	8.9
30°-40°	622.6	10.6
40°-50°	643.7	10.9
50°-60°	593.0	10.1
60°-70°	479.3	8.1
70°-80°	320.7	5.4
80°-90°	166.7	2.8
90°-100°	113.5	1.9
100°-110°	202.7	3.4
110°-120°	287.2	4.9
120°-130°	335.5	5.7
130°-140°	344.2	5.8
140°-150°	314.6	5.3
150°-160°	252.7	4.3
160°-170°	163.4	2.8
170°-180°	56.4	1.0
0°-30°	1003.8	17.0
0°-40°	1626.4	27.6
0°-60°	2863.1	48.5
0°-90°	3829.8	64.9
90°-120°	603.4	10.2
90°-150°	1597.8	27.1
90°-180°	2070.0	35.1
0°-180°	5900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	21	66	113	145	155	16
95°	42	74	101	132	141	44
105°	141	163	202	228	236	149
115°	250	262	296	317	322	248
125°	350	352	378	397	402	313
135°	433	434	442	458	462	334
145°	500	500	500	507	509	313
155°	550	547	548	549	546	253
165°	580	577	578	580	577	164
175°	593	590	591	594	590	56
180°	593	593	593	593	593	

TEST NUMBER: P1034368

CATALOG NUMBER: S125DIW-B1090D470UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.0	65.9	112.8	144.7	155.1
92.5°	26.5	59.9	107.6	138.2	147.8
95°	41.9	74.0	101.2	131.8	140.8
97.5°	62.5	96.2	96.9	124.9	134.4
100°	87.6	116.1	159.1	120.7	126.6
102.5°	113.2	139.4	180.3	207.0	177.8
105°	140.9	163.3	202.0	227.8	236.4
107.5°	169.5	187.6	225.9	252.1	258.1
110°	197.2	212.7	249.7	273.0	282.4

TEST NUMBER: P1034368

CATALOG NUMBER: S125DIW-B1090D470UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.5	237.4	272.7	294.2	302.3
115°	250.4	261.7	295.7	317.1	322.3
117.5°	277.8	284.2	318.3	337.5	345.6
120°	304.2	307.5	338.6	359.6	365.2
122.5°	326.2	329.7	358.4	378.3	383.3
125°	350.4	352.2	378.0	396.8	402.0
127.5°	372.4	373.3	394.7	413.3	417.4
130°	393.5	394.4	412.8	429.6	433.9
132.5°	413.3	415.9	427.5	445.5	448.5
135°	433.1	434.4	442.5	458.5	462.2
137.5°	451.6	452.9	457.2	472.6	475.6
140°	468.3	469.2	470.0	485.1	487.6
142.5°	484.5	483.7	484.6	496.2	498.7
145°	500.4	500.0	500.0	506.9	509.4
147.5°	513.2	513.2	513.6	516.6	516.2
150°	526.3	525.5	526.3	527.2	525.0
152.5°	539.1	536.9	537.8	538.7	535.6
155°	549.6	547.0	547.9	549.2	545.7
157.5°	558.0	556.7	556.7	558.0	554.5
160°	566.8	564.2	564.6	566.4	562.8
162.5°	573.8	571.2	571.6	574.3	570.3
165°	580.0	577.3	577.8	580.4	576.9
167.5°	584.8	582.2	582.6	585.7	581.7
170°	588.8	585.7	586.1	589.7	585.7
172.5°	591.4	588.3	589.2	592.3	588.3
175°	593.2	590.5	591.0	594.5	590.5
177.5°	594.5	591.9	592.3	595.4	591.9
180°	593.2	593.2	593.2	593.2	593.2

(END OF REPORT)