

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: P1034544

Luminaire Tested: S125DIW-B610D1050UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034544
REPORT IS A COMBINATION OF REPORTS P1003725 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1050UB2750-4F0-XX-W2A-D1_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

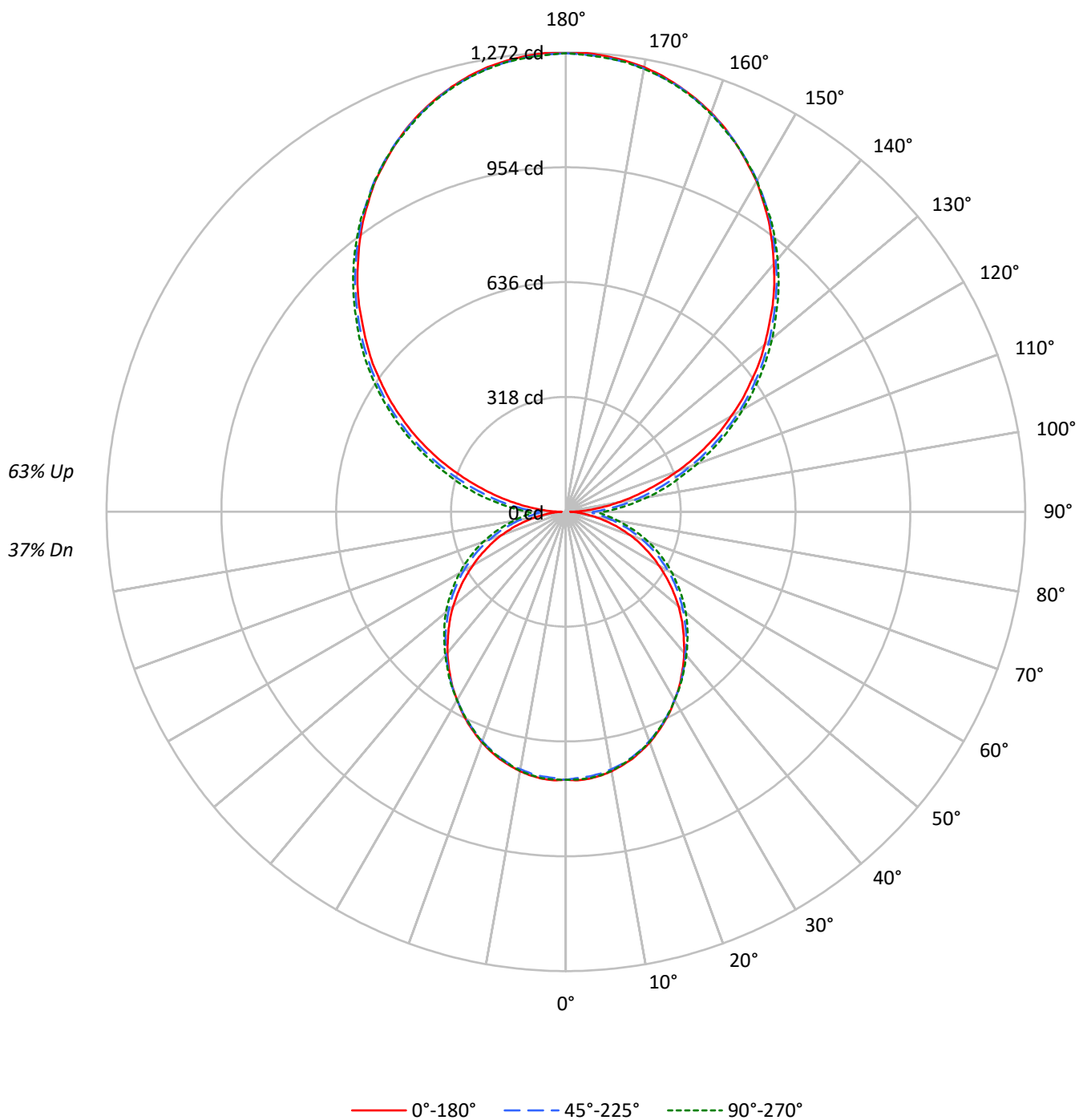
Lumens per Lamp: N/A
Luminaire Lumens: 5845.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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: P1034544

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-D1_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1034544

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-D1_5000K

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37		
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36	30		
2	86	78	72	67	77	71	66	61	57	53	50	45	42	40	33	32	30	25		
3	78	68	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	21		
4	71	60	52	46	64	55	48	43	45	40	36	35	31	28	26	24	22	18		
5	65	54	46	40	59	49	42	36	40	34	30	31	27	25	23	21	19	15		
6	60	48	40	34	54	44	37	32	36	30	26	28	24	21	21	18	16	13		
7	55	43	35	30	50	39	32	28	32	27	23	26	22	19	19	17	15	12		
8	51	39	31	26	46	36	29	24	29	24	20	23	19	17	18	15	13	10		
9	48	36	28	23	43	33	26	21	27	22	18	21	18	15	16	14	12	9		
10	44	33	25	21	40	30	23	19	25	20	16	20	16	13	15	12	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

TEST NUMBER: P1034544

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-D1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.2
10°-20°	199.4	3.4
20°-30°	296.5	5.1
30°-40°	351.1	6.0
40°-50°	363.0	6.2
50°-60°	334.4	5.7
60°-70°	270.3	4.6
70°-80°	180.9	3.1
80°-90°	95.5	1.6
90°-100°	137.1	2.3
100°-110°	289.7	5.0
110°-120°	451.4	7.7
120°-130°	574.8	9.8
130°-140°	634.0	10.8
140°-150°	616.4	10.5
150°-160°	516.7	8.8
160°-170°	343.5	5.9
170°-180°	120.2	2.1
0°-30°	566.0	9.7
0°-40°	917.1	15.7
0°-60°	1614.5	27.6
0°-90°	2161.1	37.0
90°-120°	878.2	15.0
90°-150°	2703.5	46.3
90°-180°	3684.0	63.0
0°-180°	5845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	13	44	76	97	105	12
95°	74	95	129	152	159	75
105°	232	248	276	297	305	247
115°	430	439	460	472	476	426
125°	624	630	645	655	658	559
135°	810	815	821	831	830	624
145°	980	983	986	990	990	613
155°	1121	1121	1122	1126	1121	516
165°	1218	1216	1218	1221	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

TEST NUMBER: P1034544

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.6	43.8	75.5	97.2	105.2
92.5°	39.8	65.9	100.3	123.2	130.3
95°	73.7	94.6	129.2	152.1	159.2
97.5°	107.5	126.0	163.8	185.1	191.2
100°	146.3	161.6	197.8	221.9	228.3
102.5°	188.1	206.9	234.4	258.8	266.2
105°	231.8	248.5	276.2	296.7	304.8
107.5°	279.5	294.7	320.7	338.3	342.6
110°	329.2	342.9	366.2	383.0	387.1

TEST NUMBER: P1034544

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.6	389.1	412.7	426.8	430.0
115°	430.3	439.4	460.2	472.4	475.7
117.5°	480.9	485.6	505.8	519.1	520.2
120°	528.3	535.5	553.3	565.6	566.0
122.5°	579.0	580.7	599.7	610.4	611.8
125°	624.5	629.7	645.2	654.9	657.5
127.5°	674.2	676.4	689.7	699.6	702.1
130°	718.6	722.9	735.0	744.2	745.9
132.5°	762.4	771.3	777.5	786.7	786.7
135°	809.9	815.0	821.1	830.6	830.2
137.5°	854.3	859.4	864.3	874.1	872.1
140°	896.0	901.0	904.7	914.7	912.7
142.5°	938.5	941.8	945.7	953.2	951.3
145°	980.0	983.3	986.2	989.8	989.8
147.5°	1017.8	1020.8	1022.8	1027.3	1020.7
150°	1056.4	1055.4	1059.4	1059.4	1058.1
152.5°	1088.0	1090.0	1091.0	1093.9	1090.0
155°	1120.6	1120.6	1121.6	1125.6	1120.6
157.5°	1150.3	1148.3	1149.3	1153.2	1146.3
160°	1176.0	1173.0	1174.0	1177.9	1173.0
162.5°	1198.7	1196.7	1196.7	1201.7	1195.7
165°	1218.5	1216.5	1217.5	1221.4	1215.5
167.5°	1236.2	1232.3	1232.3	1238.2	1232.3
170°	1250.1	1246.1	1246.1	1252.1	1245.1
172.5°	1260.0	1256.0	1256.0	1261.9	1256.0
175°	1266.9	1262.9	1262.9	1268.9	1261.9
177.5°	1271.8	1267.9	1266.9	1272.8	1265.9
180°	1269.8	1269.8	1269.8	1269.8	1269.8

(END OF REPORT)