

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: P1035401

Luminaire Tested: S125DIW-B610D1050UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035401
REPORT IS A COMBINATION OF REPORTS P1003761 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1050UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

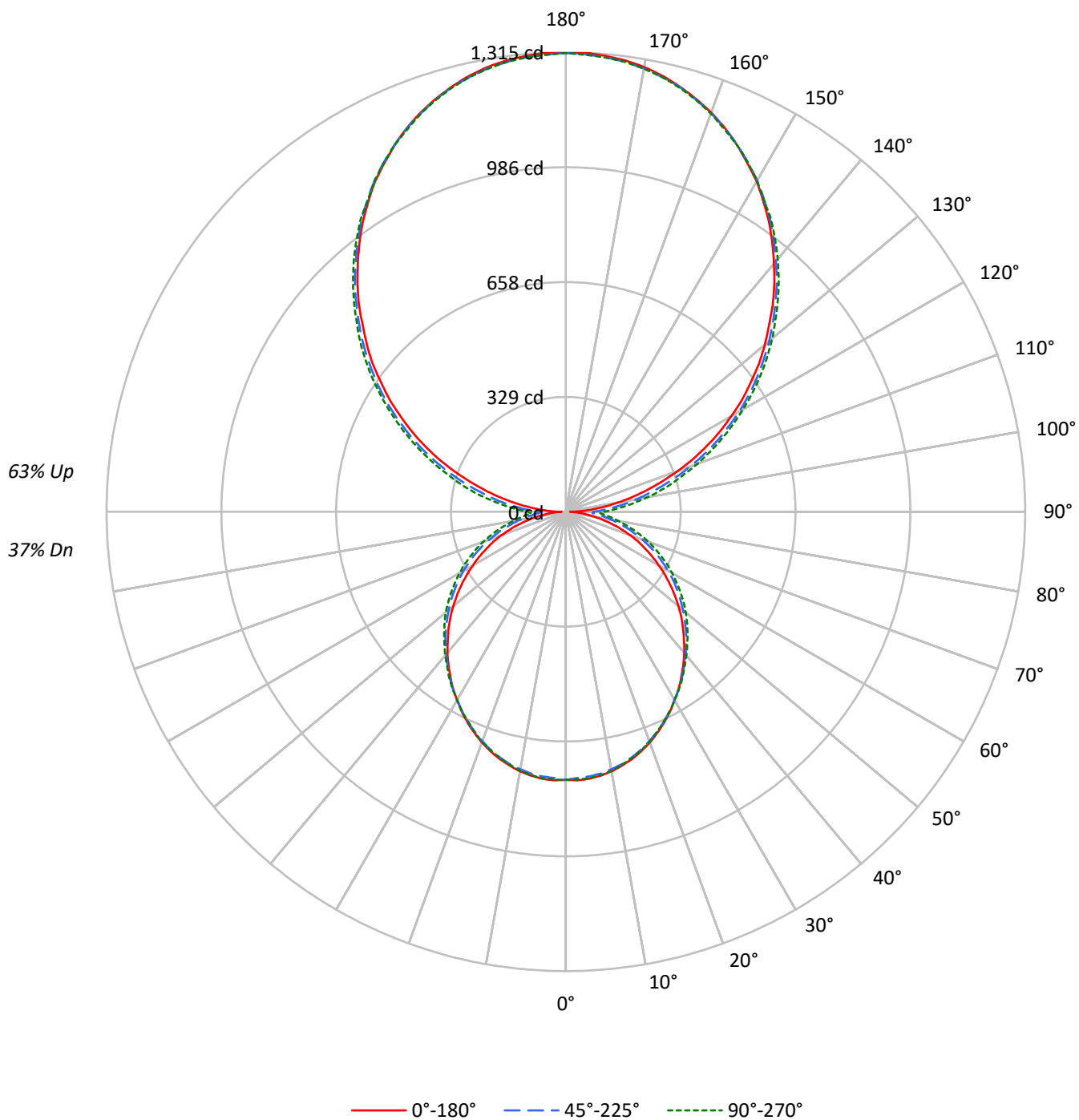
Lumens per Lamp: N/A
Luminaire Lumens: 6044.1 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4196 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.2
10°-20°	206.1	3.4
20°-30°	306.5	5.1
30°-40°	363.0	6.0
40°-50°	375.3	6.2
50°-60°	345.7	5.7
60°-70°	279.5	4.6
70°-80°	187.0	3.1
80°-90°	98.7	1.6
90°-100°	141.8	2.3
100°-110°	299.6	5.0
110°-120°	466.8	7.7
120°-130°	594.4	9.8
130°-140°	655.7	10.8
140°-150°	637.5	10.5
150°-160°	534.4	8.8
160°-170°	355.2	5.9
170°-180°	124.3	2.1
0°-30°	585.2	9.7
0°-40°	948.2	15.7
0°-60°	1669.2	27.6
0°-90°	2234.4	37.0
90°-120°	908.2	15.0
90°-150°	2795.8	46.3
90°-180°	3810.0	63.0
0°-180°	6044.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	13	45	78	100	109	13
95°	76	98	134	157	165	77
105°	240	257	286	307	315	256
115°	445	454	476	488	492	440
125°	646	651	667	677	680	578
135°	837	843	849	859	859	645
145°	1014	1017	1020	1024	1024	633
155°	1159	1159	1160	1164	1159	534
165°	1260	1258	1259	1263	1257	356
175°	1310	1306	1306	1312	1305	125
180°	1313	1313	1313	1313	1313	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	13.0	45.3	78.1	100.5	108.8
92.5°	41.2	68.1	103.7	127.3	134.7
95°	76.2	97.8	133.6	157.3	164.6
97.5°	111.2	130.3	169.4	191.4	197.7
100°	151.4	167.2	204.5	229.5	236.1
102.5°	194.5	213.9	242.3	267.7	275.2
105°	239.8	256.9	285.6	306.8	315.1
107.5°	289.1	304.7	331.7	349.8	354.3
110°	340.5	354.6	378.8	396.0	400.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	393.6	402.4	426.8	441.4	444.6
115°	444.9	454.3	475.9	488.5	491.9
117.5°	497.4	502.1	523.0	536.8	538.0
120°	546.4	553.8	572.1	584.9	585.3
122.5°	598.8	600.6	620.2	631.1	632.7
125°	645.8	651.2	667.2	677.2	680.0
127.5°	697.2	699.5	713.3	723.6	726.0
130°	743.2	747.5	760.0	769.6	771.3
132.5°	788.4	797.6	804.1	813.6	813.6
135°	837.4	842.9	849.1	858.9	858.6
137.5°	883.4	888.9	893.9	903.9	901.8
140°	926.7	931.8	935.5	945.9	943.8
142.5°	970.6	973.9	978.0	985.8	983.7
145°	1013.5	1016.8	1019.9	1023.7	1023.6
147.5°	1052.6	1055.6	1057.7	1062.3	1055.6
150°	1092.4	1091.4	1095.5	1095.5	1094.3
152.5°	1125.1	1127.2	1128.2	1131.3	1127.2
155°	1158.9	1158.9	1159.9	1164.0	1158.9
157.5°	1189.5	1187.5	1188.5	1192.6	1185.4
160°	1216.1	1213.0	1214.0	1218.1	1213.0
162.5°	1239.6	1237.5	1237.5	1242.7	1236.5
165°	1260.0	1258.0	1259.0	1263.1	1257.0
167.5°	1278.4	1274.3	1274.3	1280.5	1274.3
170°	1292.7	1288.6	1288.6	1294.8	1287.6
172.5°	1303.0	1298.9	1298.9	1305.0	1298.9
175°	1310.1	1306.0	1306.0	1312.1	1305.0
177.5°	1315.2	1311.1	1310.1	1316.2	1309.1
180°	1313.2	1313.2	1313.2	1313.2	1313.2

(END OF REPORT)