

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: P1034547

Luminaire Tested: S125DIW-B610D1050UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034547
REPORT IS A COMBINATION OF REPORTS P1003729 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-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

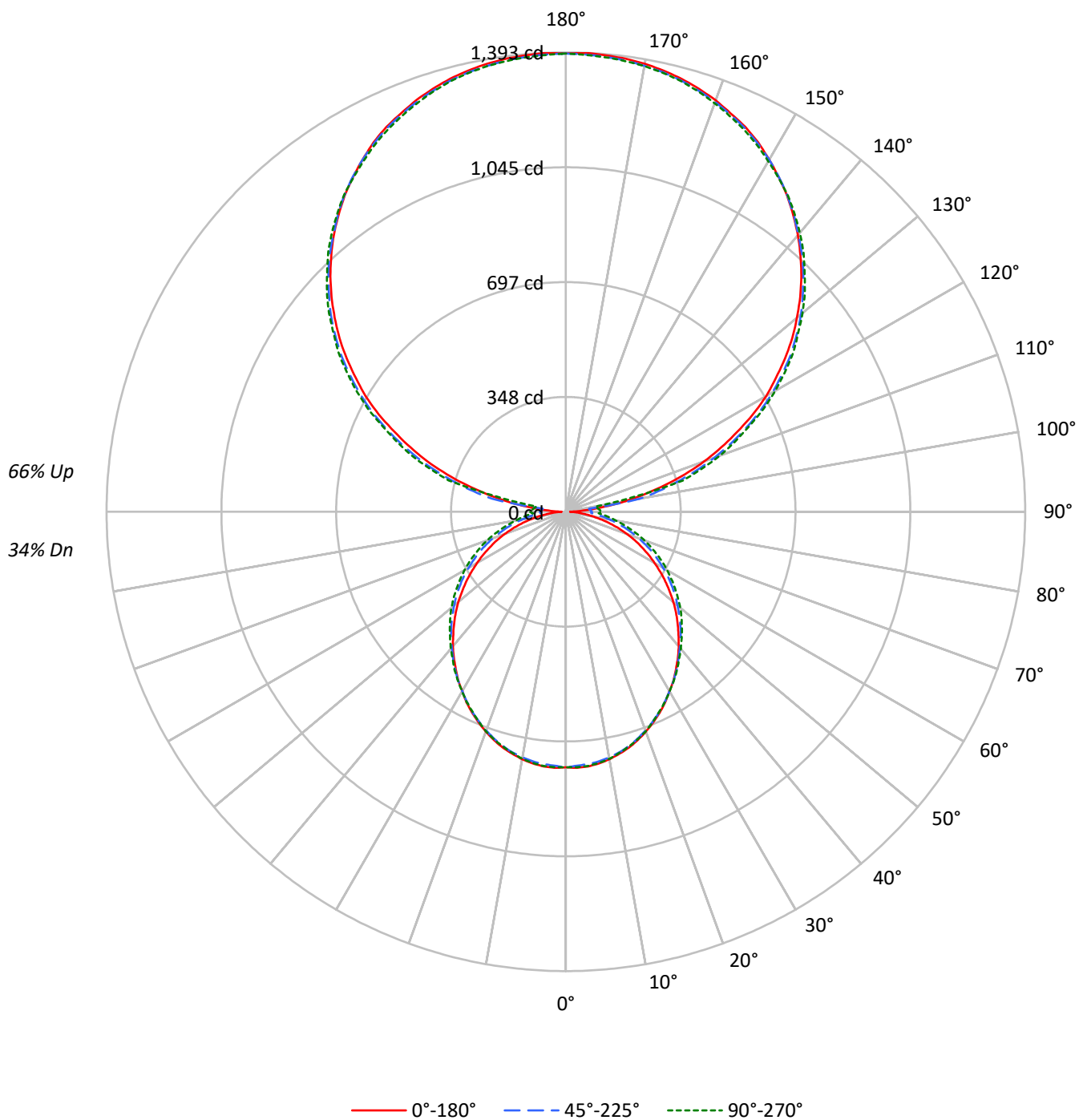
Lumens per Lamp: N/A
Luminaire Lumens: 6672.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		57	57	57		41
1	94	89	85	82	84	81	77	74	64	62	60		49	48	46		36
2	85	78	71	66	76	70	65	60	56	52	49		43	41	38		31
3	77	68	61	55	69	61	55	50	49	45	41		38	35	32		27
4	71	60	52	46	63	54	48	42	44	39	35		34	30	27		24
5	65	53	45	39	58	48	41	36	39	34	30		30	26	24		22
6	60	48	40	34	53	43	36	31	35	30	26		27	23	21		20
7	55	43	35	29	49	39	32	27	31	26	23		25	21	18		18
8	51	39	31	26	46	35	29	24	29	24	20		22	19	16		16
9	47	35	28	23	43	32	26	21	26	21	18		21	17	14		15
10	44	32	25	20	40	29	23	19	24	19	16		19	15	13		14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.1
10°-20°	208.2	3.1
20°-30°	309.6	4.6
30°-40°	366.7	5.5
40°-50°	379.1	5.7
50°-60°	349.2	5.2
60°-70°	282.3	4.2
70°-80°	188.9	2.8
80°-90°	99.7	1.5
90°-100°	102.2	1.5
100°-110°	354.2	5.3
110°-120°	591.9	8.9
120°-130°	740.3	11.1
130°-140°	786.5	11.8
140°-150°	733.1	11.0
150°-160°	592.0	8.9
160°-170°	382.8	5.7
170°-180°	132.0	2.0
0°-30°	591.2	8.9
0°-40°	957.8	14.4
0°-60°	1686.1	25.3
0°-90°	2257.0	33.8
90°-120°	1048.3	15.7
90°-150°	3308.2	49.6
90°-180°	4415.0	66.2
0°-180°	6672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	46	79	101	110	11
95°	69	85	72	94	99	80
105°	310	326	349	364	368	328
115°	573	584	604	614	612	568
125°	812	818	833	841	842	725
135°	1010	1016	1019	1027	1024	779
145°	1170	1171	1171	1176	1173	732
155°	1288	1282	1284	1287	1278	593
165°	1359	1353	1354	1360	1352	384
175°	1390	1384	1385	1393	1384	132
180°	1390	1390	1390	1390	1390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.2	45.8	78.8	101.4	109.8
92.5°	30.2	43.0	75.8	97.6	104.0
95°	68.6	85.2	72.0	93.8	99.1
97.5°	119.3	143.8	70.9	89.0	95.3
100°	180.4	199.4	227.9	90.4	90.7
102.5°	242.5	261.0	286.7	303.9	221.9
105°	309.7	326.0	348.8	364.0	368.3
107.5°	379.0	389.6	413.8	430.0	430.4
110°	446.2	455.3	478.7	490.1	496.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	510.1	520.1	541.6	551.2	554.4
115°	573.3	583.7	604.4	614.0	612.4
117.5°	639.4	643.2	666.3	673.1	676.3
120°	701.2	702.5	723.1	733.9	733.3
122.5°	755.0	761.0	778.7	788.9	787.2
125°	811.7	818.2	833.4	841.4	842.1
127.5°	865.6	869.9	881.8	891.2	887.5
130°	915.0	919.4	931.1	938.6	937.3
132.5°	963.7	969.9	974.4	985.1	982.9
135°	1010.1	1015.5	1018.8	1026.6	1024.2
137.5°	1053.3	1058.8	1059.7	1068.8	1066.8
140°	1094.9	1096.9	1096.6	1107.1	1103.9
142.5°	1133.0	1133.2	1135.3	1142.1	1139.0
145°	1170.1	1171.3	1171.3	1176.2	1173.0
147.5°	1202.2	1202.2	1203.3	1205.8	1200.1
150°	1233.1	1231.1	1233.1	1235.2	1227.8
152.5°	1263.0	1257.9	1259.9	1262.0	1254.8
155°	1287.7	1281.6	1283.6	1286.7	1278.5
157.5°	1307.3	1304.2	1304.2	1307.3	1299.1
160°	1327.9	1321.7	1322.8	1326.9	1318.6
162.5°	1344.4	1338.2	1339.2	1345.4	1336.2
165°	1358.8	1352.6	1353.7	1359.8	1351.6
167.5°	1370.2	1364.0	1365.0	1372.2	1362.9
170°	1379.4	1372.2	1373.2	1381.5	1372.2
172.5°	1385.6	1378.4	1380.5	1387.7	1378.4
175°	1389.7	1383.5	1384.6	1392.8	1383.5
177.5°	1392.8	1386.6	1387.7	1394.9	1386.6
180°	1389.7	1389.7	1389.7	1389.7	1389.7

(END OF REPORT)