

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: P1034546

Luminaire Tested: S125DIW-B610D1050UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034546
REPORT IS A COMBINATION OF REPORTS P1003728 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_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

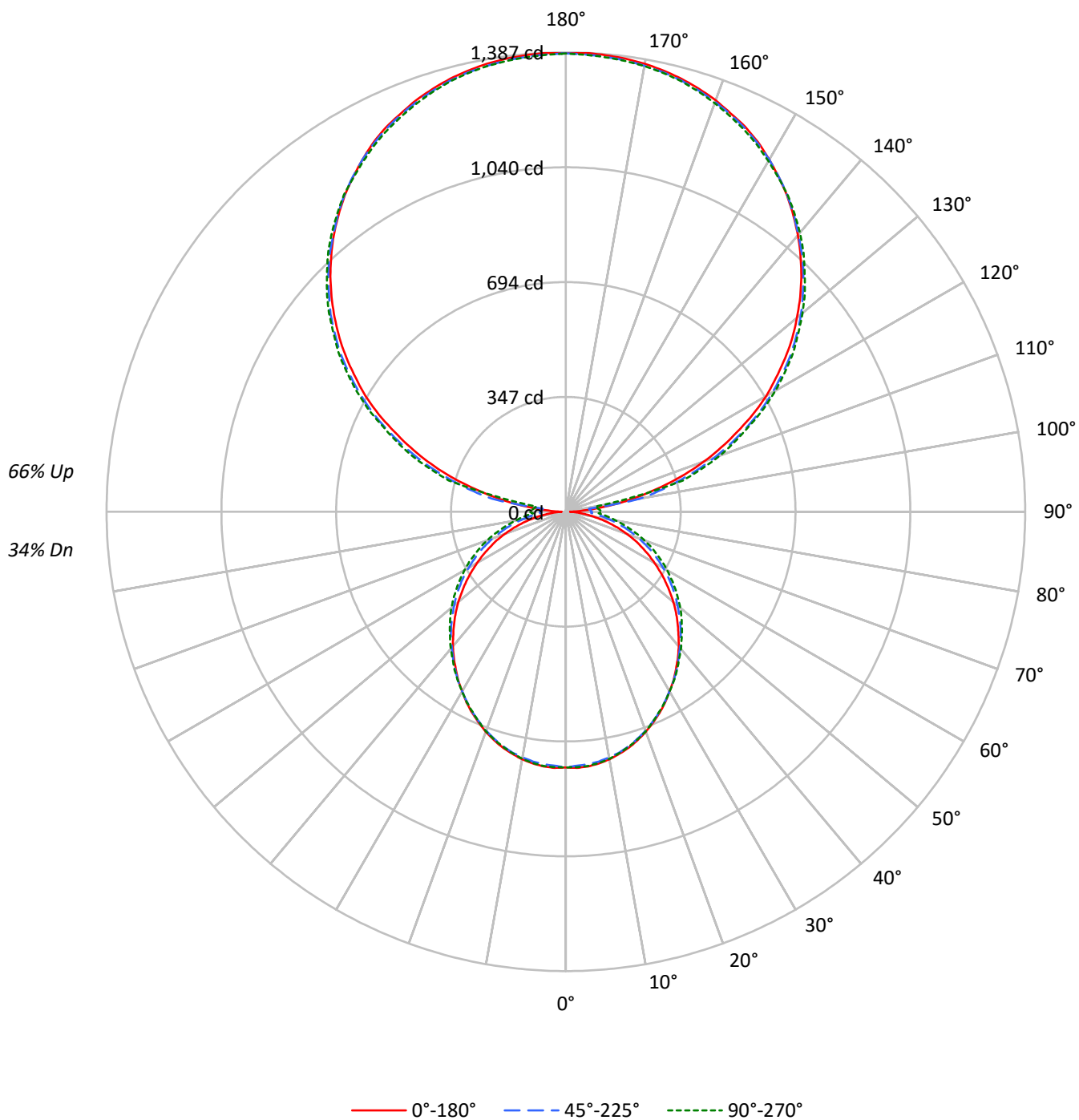
Lumens per Lamp: N/A
Luminaire Lumens: 6644.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.1
10°-20°	207.3	3.1
20°-30°	308.3	4.6
30°-40°	365.1	5.5
40°-50°	377.5	5.7
50°-60°	347.7	5.2
60°-70°	281.1	4.2
70°-80°	188.1	2.8
80°-90°	99.3	1.5
90°-100°	101.7	1.5
100°-110°	352.7	5.3
110°-120°	589.5	8.9
120°-130°	737.2	11.1
130°-140°	783.2	11.8
140°-150°	730.1	11.0
150°-160°	589.5	8.9
160°-170°	381.2	5.7
170°-180°	131.5	2.0
0°-30°	588.7	8.9
0°-40°	953.8	14.4
0°-60°	1679.1	25.3
0°-90°	2247.5	33.8
90°-120°	1043.8	15.7
90°-150°	3294.3	49.6
90°-180°	4396.0	66.2
0°-180°	6644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	13	46	78	101	109	11
95°	68	85	72	93	99	79
105°	308	325	347	362	367	327
115°	571	581	602	611	610	566
125°	808	815	830	838	839	722
135°	1006	1011	1014	1022	1020	775
145°	1165	1166	1166	1171	1168	729
155°	1282	1276	1278	1281	1273	591
165°	1353	1347	1348	1354	1346	382
175°	1384	1378	1379	1387	1378	132
180°	1384	1384	1384	1384	1384	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	13.1	45.5	78.4	101.0	109.4
92.5°	30.1	42.8	75.4	97.2	103.6
95°	68.3	84.9	71.6	93.4	98.7
97.5°	118.9	143.1	70.7	88.6	94.9
100°	179.6	198.6	226.9	89.9	90.4
102.5°	241.5	259.9	285.4	302.6	221.0
105°	308.4	324.6	347.3	362.5	366.7
107.5°	377.5	388.0	412.0	428.1	428.6
110°	444.4	453.5	476.7	487.9	494.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.0	517.8	539.3	548.9	552.1
115°	570.8	581.2	601.9	611.4	609.9
117.5°	636.7	640.5	663.6	670.2	673.4
120°	698.3	699.6	720.0	730.8	730.3
122.5°	751.9	757.8	775.4	785.5	783.9
125°	808.3	814.8	829.9	837.9	838.6
127.5°	862.0	866.3	878.2	887.4	883.8
130°	911.2	915.5	927.2	934.7	933.3
132.5°	959.6	965.8	970.3	980.9	978.8
135°	1005.8	1011.3	1014.5	1022.3	1019.9
137.5°	1048.9	1054.3	1055.3	1064.4	1062.3
140°	1090.2	1092.3	1092.0	1102.3	1099.3
142.5°	1128.2	1128.4	1130.5	1137.3	1134.1
145°	1165.1	1166.4	1166.4	1171.2	1168.1
147.5°	1197.2	1197.2	1198.2	1200.7	1195.0
150°	1227.9	1225.9	1227.9	1230.0	1222.6
152.5°	1257.7	1252.6	1254.6	1256.7	1249.5
155°	1282.3	1276.2	1278.2	1281.3	1273.1
157.5°	1301.8	1298.7	1298.7	1301.8	1293.6
160°	1322.3	1316.2	1317.2	1321.3	1313.1
162.5°	1338.7	1332.6	1333.6	1339.8	1330.5
165°	1353.1	1346.9	1348.0	1354.1	1345.9
167.5°	1364.4	1358.2	1359.2	1366.4	1357.2
170°	1373.6	1366.4	1367.5	1375.7	1366.4
172.5°	1379.8	1372.6	1374.6	1381.8	1372.6
175°	1383.9	1377.7	1378.7	1386.9	1377.7
177.5°	1386.9	1380.8	1381.8	1389.0	1380.8
180°	1383.9	1383.9	1383.9	1383.9	1383.9

(END OF REPORT)