

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: P1035389

Luminaire Tested: S125DIW-B610D1050UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035389
REPORT IS A COMBINATION OF REPORTS P1003743 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1050UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

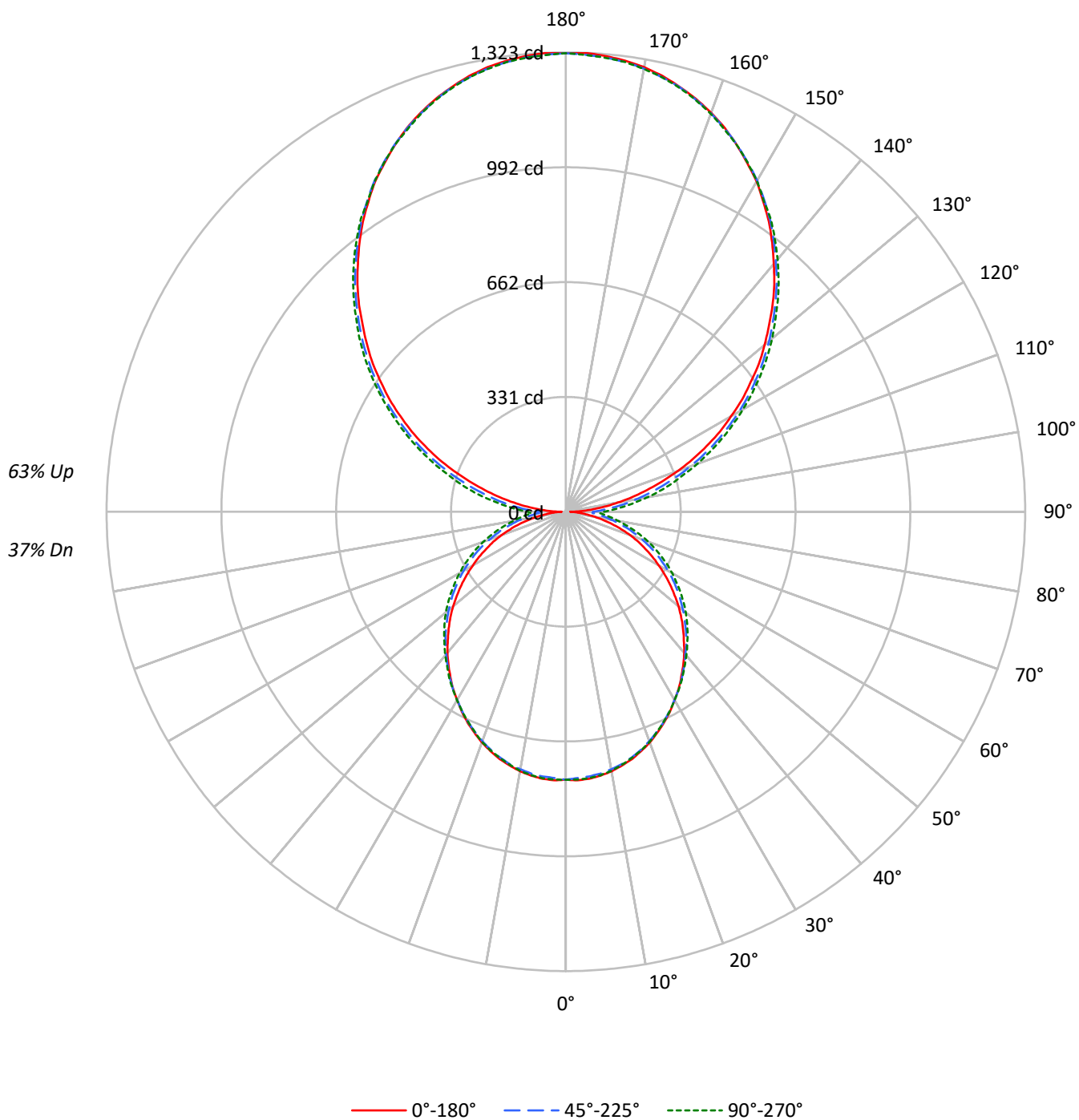
Lumens per Lamp: N/A
Luminaire Lumens: 6078.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	36	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°	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	1.2
10°-20°	207.3	3.4
20°-30°	308.3	5.1
30°-40°	365.1	6.0
40°-50°	377.5	6.2
50°-60°	347.7	5.7
60°-70°	281.1	4.6
70°-80°	188.1	3.1
80°-90°	99.3	1.6
90°-100°	142.6	2.3
100°-110°	301.3	5.0
110°-120°	469.5	7.7
120°-130°	597.8	9.8
130°-140°	659.4	10.8
140°-150°	641.1	10.5
150°-160°	537.4	8.8
160°-170°	357.2	5.9
170°-180°	125.0	2.1
0°-30°	588.7	9.7
0°-40°	953.8	15.7
0°-60°	1679.1	27.6
0°-90°	2247.6	37.0
90°-120°	913.3	15.0
90°-150°	2811.7	46.3
90°-180°	3831.0	63.0
0°-180°	6078.9	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	110	13
95°	77	98	134	158	166	78
105°	241	258	287	309	317	257
115°	448	457	479	491	495	443
125°	650	655	671	681	684	582
135°	842	848	854	864	864	649
145°	1019	1023	1026	1030	1029	637
155°	1166	1166	1166	1171	1166	537
165°	1267	1265	1266	1270	1264	358
175°	1318	1314	1314	1320	1312	125
180°	1321	1321	1321	1321	1321	

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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	101.1	109.5
92.5°	41.4	68.5	104.2	128.1	135.5
95°	76.6	98.4	134.3	158.2	165.6
97.5°	111.9	131.0	170.4	192.5	198.8
100°	152.2	168.1	205.6	230.8	237.5
102.5°	195.7	215.1	243.8	269.1	276.8
105°	241.1	258.4	287.2	308.6	316.9
107.5°	290.8	306.4	333.6	351.8	356.4
110°	342.4	356.6	380.9	398.3	402.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	395.9	404.7	429.2	443.9	447.2
115°	447.5	456.9	478.6	491.2	494.8
117.5°	500.2	505.0	526.0	539.8	541.0
120°	549.5	557.0	575.4	588.2	588.7
122.5°	602.2	604.0	623.7	634.8	636.3
125°	649.5	654.9	671.1	681.1	683.9
127.5°	701.2	703.5	717.4	727.7	730.2
130°	747.4	751.8	764.4	774.0	775.7
132.5°	792.9	802.1	808.7	818.3	818.2
135°	842.2	847.7	854.0	863.8	863.5
137.5°	888.5	893.9	899.0	909.1	907.0
140°	932.0	937.1	940.9	951.2	949.2
142.5°	976.2	979.5	983.6	991.4	989.3
145°	1019.3	1022.6	1025.7	1029.5	1029.4
147.5°	1058.6	1061.7	1063.7	1068.3	1061.6
150°	1098.7	1097.7	1101.8	1101.8	1100.5
152.5°	1131.6	1133.6	1134.7	1137.7	1133.6
155°	1165.5	1165.5	1166.5	1170.6	1165.5
157.5°	1196.3	1194.3	1195.3	1199.4	1192.2
160°	1223.1	1220.0	1221.0	1225.1	1220.0
162.5°	1246.7	1244.6	1244.6	1249.8	1243.6
165°	1267.2	1265.2	1266.2	1270.3	1264.2
167.5°	1285.7	1281.6	1281.6	1287.8	1281.6
170°	1300.1	1296.0	1296.0	1302.2	1295.0
172.5°	1310.4	1306.3	1306.3	1312.5	1306.3
175°	1317.6	1313.5	1313.5	1319.7	1312.5
177.5°	1322.7	1318.6	1317.6	1323.8	1316.6
180°	1320.7	1320.7	1320.7	1320.7	1320.7

(END OF REPORT)