

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: P1034548

Luminaire Tested: S125DIW-B610D1050UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034548
REPORT IS A COMBINATION OF REPORTS P1003731 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_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

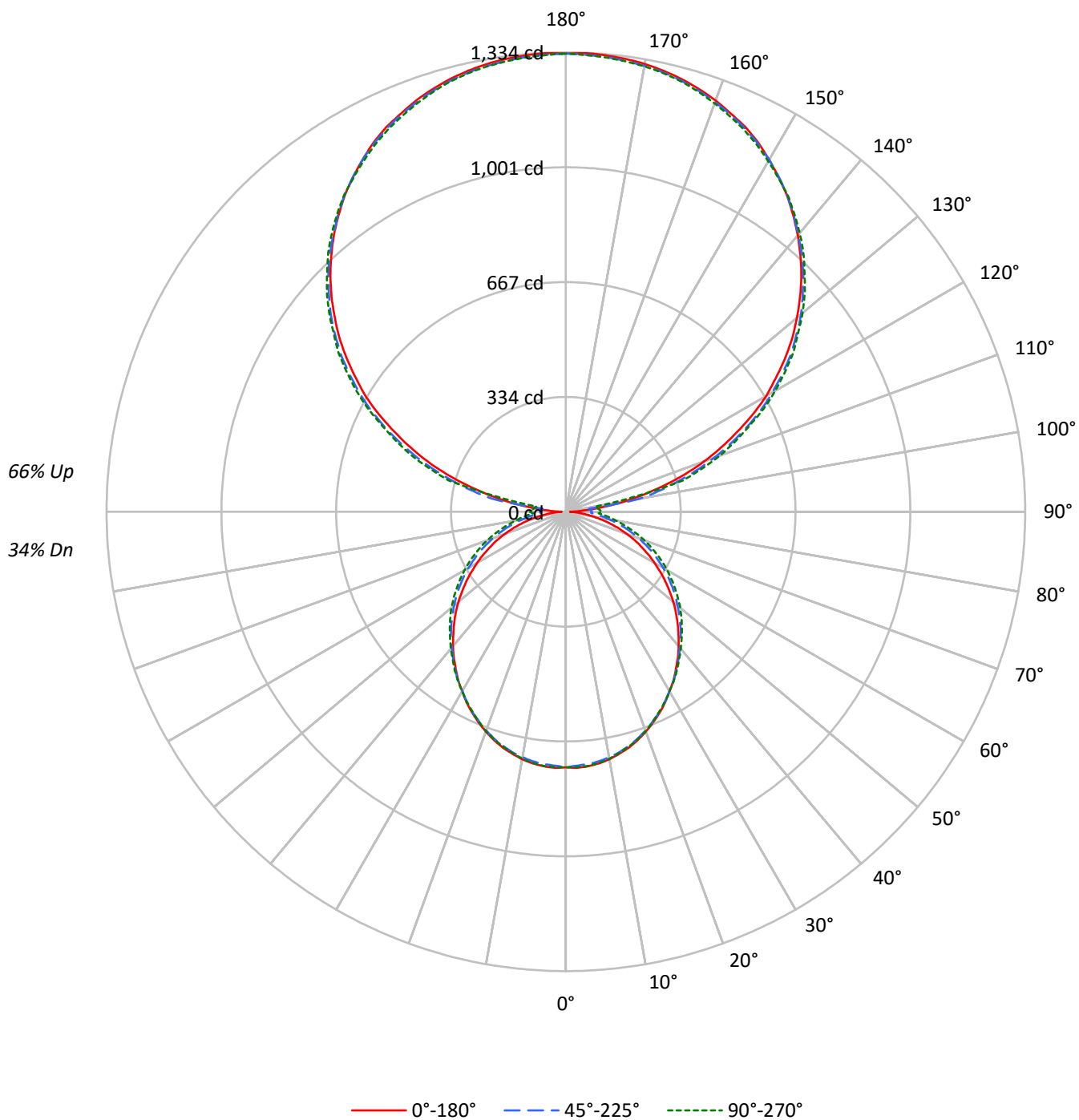
Lumens per Lamp: N/A
Luminaire Lumens: 6388.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	89	85	82	84	81	77	74	64	62	60	49	48	46	36	35	34
2	85	78	71	66	76	70	65	60	56	52	49	43	41	38	31	29	28
3	77	68	61	55	69	61	55	50	49	45	41	38	35	32	27	25	24
4	71	60	52	46	63	54	48	42	44	39	35	34	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	34	30	30	26	24	22	19	18
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15
7	55	43	35	29	49	39	32	27	31	26	23	25	21	18	18	15	14
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.1
10°-20°	199.4	3.1
20°-30°	296.5	4.6
30°-40°	351.1	5.5
40°-50°	363.0	5.7
50°-60°	334.4	5.2
60°-70°	270.3	4.2
70°-80°	180.9	2.8
80°-90°	95.5	1.5
90°-100°	97.8	1.5
100°-110°	339.1	5.3
110°-120°	566.7	8.9
120°-130°	708.8	11.1
130°-140°	752.9	11.8
140°-150°	701.9	11.0
150°-160°	566.7	8.9
160°-170°	366.5	5.7
170°-180°	126.4	2.0
0°-30°	566.0	8.9
0°-40°	917.1	14.4
0°-60°	1614.5	25.3
0°-90°	2161.1	33.8
90°-120°	1003.6	15.7
90°-150°	3167.3	49.6
90°-180°	4227.0	66.2
0°-180°	6388.0	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	11
95°	66	82	69	90	95	76
105°	296	312	334	348	353	314
115°	549	559	579	588	586	544
125°	777	783	798	806	806	694
135°	967	972	975	983	980	746
145°	1120	1121	1121	1126	1123	700
155°	1233	1227	1229	1232	1224	568
165°	1301	1295	1296	1302	1294	367
175°	1330	1325	1326	1334	1325	127
180°	1330	1330	1330	1330	1330	

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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	97.1	105.2
92.5°	28.9	41.2	72.6	93.5	99.6
95°	65.7	81.7	68.9	89.8	94.9
97.5°	114.2	137.7	68.0	85.2	91.3
100°	172.7	191.0	218.2	86.5	86.9
102.5°	232.2	249.9	274.5	291.0	212.5
105°	296.5	312.1	333.9	348.5	352.6
107.5°	362.8	373.0	396.1	411.7	412.1
110°	427.2	435.9	458.3	469.1	475.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.4	497.8	518.5	527.7	530.8
115°	548.8	558.9	578.7	587.9	586.3
117.5°	612.1	615.8	638.0	644.4	647.5
120°	671.3	672.5	692.3	702.6	702.1
122.5°	722.9	728.5	745.5	755.2	753.7
125°	777.1	783.3	797.8	805.6	806.2
127.5°	828.7	832.9	844.3	853.2	849.7
130°	876.1	880.3	891.4	898.6	897.4
132.5°	922.7	928.6	932.9	943.1	941.0
135°	967.1	972.2	975.3	982.8	980.5
137.5°	1008.5	1013.6	1014.5	1023.3	1021.3
140°	1048.1	1050.1	1049.9	1059.9	1056.9
142.5°	1084.6	1084.9	1086.9	1093.4	1090.5
145°	1120.1	1121.4	1121.4	1126.0	1123.0
147.5°	1151.0	1151.0	1152.0	1154.5	1149.0
150°	1180.6	1178.6	1180.6	1182.6	1175.4
152.5°	1209.2	1204.3	1206.2	1208.2	1201.3
155°	1232.9	1226.9	1228.9	1231.9	1224.0
157.5°	1251.6	1248.6	1248.6	1251.6	1243.7
160°	1271.3	1265.4	1266.4	1270.3	1262.4
162.5°	1287.1	1281.2	1282.2	1288.1	1279.2
165°	1300.9	1295.0	1296.0	1301.9	1294.0
167.5°	1311.8	1305.8	1306.8	1313.7	1304.9
170°	1320.6	1313.7	1314.7	1322.6	1313.7
172.5°	1326.6	1319.7	1321.6	1328.5	1319.7
175°	1330.5	1324.6	1325.6	1333.5	1324.6
177.5°	1333.5	1327.5	1328.5	1335.4	1327.5
180°	1330.5	1330.5	1330.5	1330.5	1330.5

(END OF REPORT)