

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: P1035262

Luminaire Tested: S125DIW-B375D1050UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035262
REPORT IS A COMBINATION OF REPORTS P1003443 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1050UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

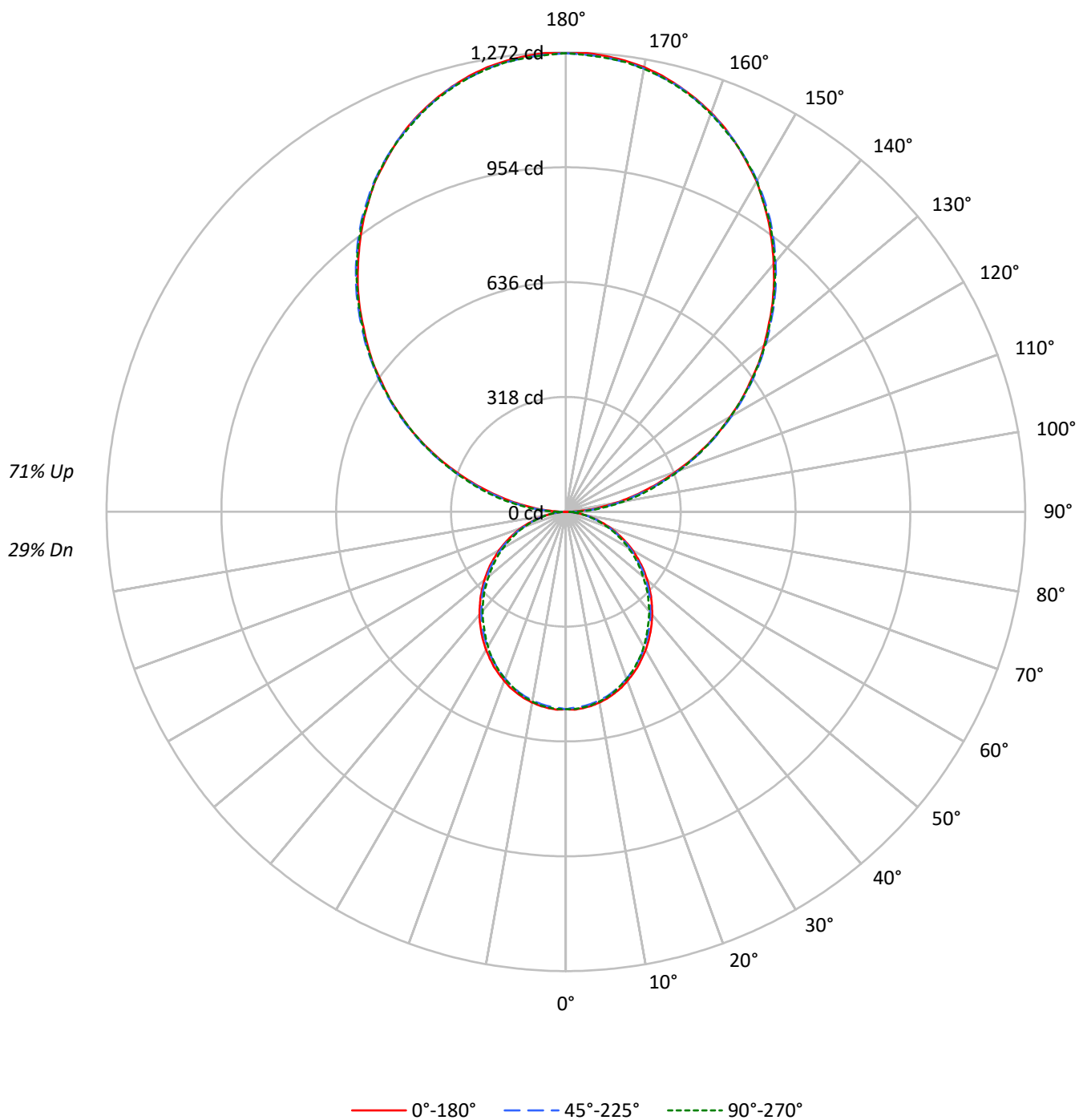
Lumens per Lamp: N/A
Luminaire Lumens: 4969.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22
4	70	60	52	47	63	54	48	42	43	38	34	32	29	27	22	20	19
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.0
10°-20°	145.7	2.9
20°-30°	215.1	4.3
30°-40°	251.0	5.1
40°-50°	252.1	5.1
50°-60°	221.3	4.5
60°-70°	164.8	3.3
70°-80°	94.1	1.9
80°-90°	29.2	0.6
90°-100°	84.4	1.7
100°-110°	250.9	5.0
110°-120°	425.4	8.6
120°-130°	560.1	11.3
130°-140°	627.6	12.6
140°-150°	615.2	12.4
150°-160°	516.7	10.4
160°-170°	343.5	6.9
170°-180°	120.2	2.4
0°-30°	412.5	8.3
0°-40°	663.5	13.4
0°-60°	1136.8	22.9
0°-90°	1425.0	28.7
90°-120°	760.7	15.3
90°-150°	2563.6	51.6
90°-180°	3544.0	71.3
0°-180°	4969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	1	9	16	21	24	6
95°	64	66	76	83	85	67
105°	225	230	236	242	245	240
115°	426	430	432	431	430	421
125°	622	628	628	626	626	557
135°	808	814	815	815	811	623
145°	979	983	986	986	983	612
155°	1121	1121	1122	1126	1121	516
165°	1218	1216	1218	1221	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	1.0	8.9	15.8	20.8	23.7
92.5°	29.6	34.6	43.5	50.4	52.4
95°	64.2	66.2	76.1	83.0	85.0
97.5°	98.8	99.8	113.6	119.6	120.6
100°	138.3	138.3	151.2	160.1	162.1
102.5°	180.8	185.8	190.7	200.6	203.6
105°	225.3	230.3	236.2	242.1	245.1
107.5°	273.7	278.7	283.6	286.6	286.6
110°	324.1	329.1	332.0	335.0	334.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.5	377.5	381.4	382.4	380.5
115°	425.9	429.9	431.8	430.9	429.9
117.5°	477.3	478.3	480.3	481.3	477.3
120°	524.7	529.7	530.7	530.7	526.7
122.5°	576.1	577.1	580.1	579.1	576.1
125°	621.6	627.5	628.5	626.5	625.5
127.5°	672.0	674.9	675.9	674.9	673.0
130°	716.4	721.4	723.4	722.4	720.4
132.5°	760.9	769.8	768.8	767.8	764.9
135°	808.4	814.3	815.3	815.3	811.3
137.5°	852.8	858.7	860.7	861.7	856.8
140°	895.3	900.3	903.2	905.2	900.3
142.5°	937.8	941.8	945.7	946.7	941.8
145°	979.3	983.3	986.2	986.2	983.3
147.5°	1017.8	1020.8	1022.8	1025.8	1017.8
150°	1056.4	1055.4	1059.4	1059.4	1057.4
152.5°	1088.0	1090.0	1091.0	1093.9	1090.0
155°	1120.6	1120.6	1121.6	1125.6	1120.6
157.5°	1150.3	1148.3	1149.3	1153.2	1146.3
160°	1176.0	1173.0	1174.0	1177.9	1173.0
162.5°	1198.7	1196.7	1196.7	1201.7	1195.7
165°	1218.5	1216.5	1217.5	1221.4	1215.5
167.5°	1236.2	1232.3	1232.3	1238.2	1232.3
170°	1250.1	1246.1	1246.1	1252.1	1245.1
172.5°	1260.0	1256.0	1256.0	1261.9	1256.0
175°	1266.9	1262.9	1262.9	1268.9	1261.9
177.5°	1271.8	1267.9	1266.9	1272.8	1265.9
180°	1269.8	1269.8	1269.8	1269.8	1269.8

(END OF REPORT)