

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: P1035872

Luminaire Tested: S125RDIW-B375D1050UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035872
REPORT IS A COMBINATION OF REPORTS P1006362 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1050UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

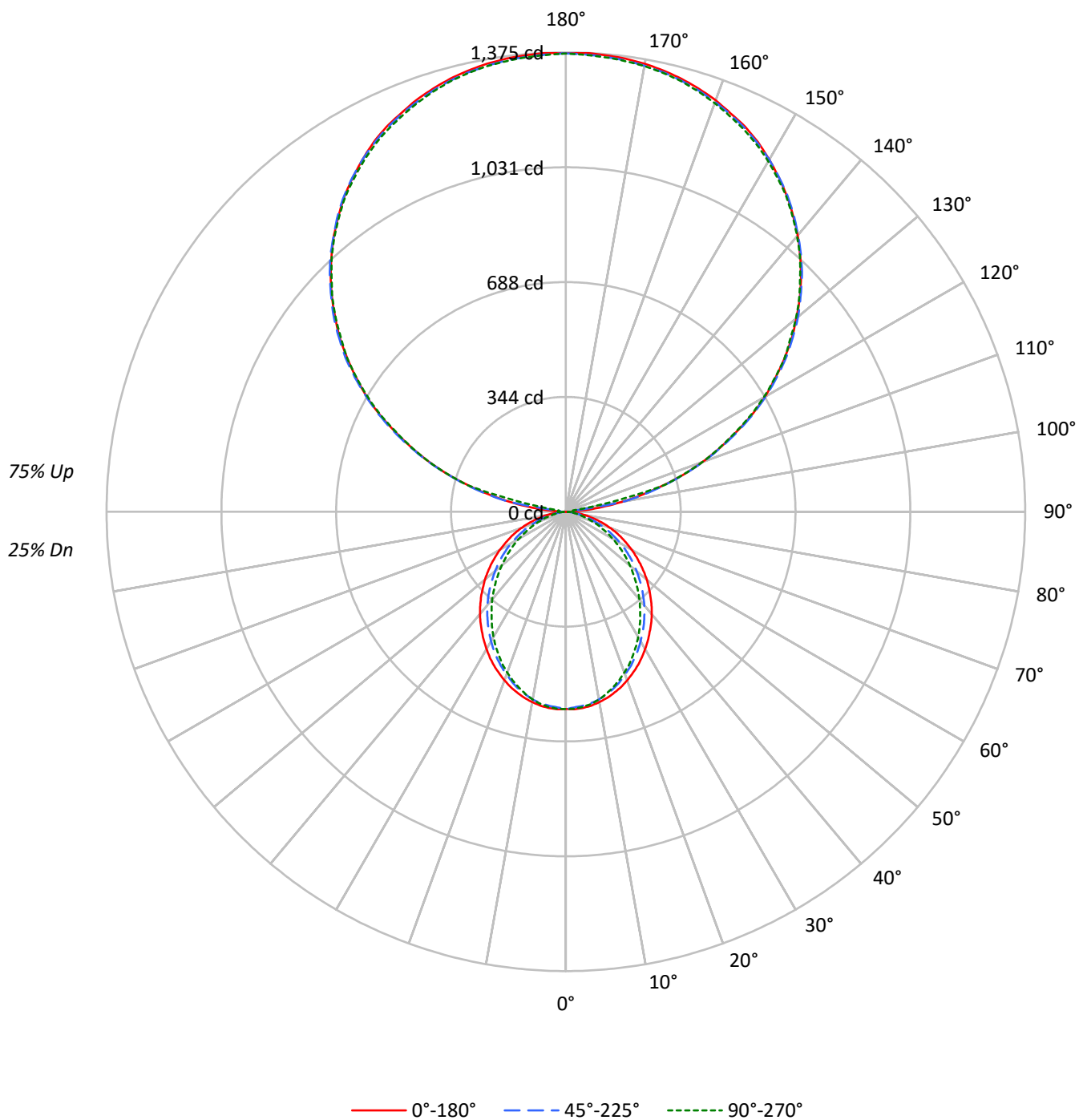
Lumens per Lamp: N/A
Luminaire Lumens: 5611.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	92	88	84	81	82	79	76	73	61	59	57	44	43	42	29	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	20
4	70	60	52	47	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	45	40	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	48	40	34	52	43	36	31	34	29	25	25	22	19	17	15	13
7	55	43	35	30	48	39	32	27	30	26	22	23	19	17	15	13	12
8	50	39	31	26	45	35	28	24	28	23	20	21	17	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	13	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3783	3783	3783
5°	3783	3689	3695
10°	3747	3596	3564
15°	3694	3466	3393
20°	3628	3309	3213
25°	3553	3156	3019
30°	3461	2988	2816
35°	3366	2818	2601
40°	3277	2642	2390
45°	3169	2453	2171
50°	3061	2252	1946
55°	2934	2055	1714
60°	2804	1828	1472
65°	2650	1576	1213
70°	2470	1283	955
75°	2221	964	696
80°	1874	625	469
85°	1401	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.0
10°-20°	155.3	2.8
20°-30°	225.2	4.0
30°-40°	256.5	4.6
40°-50°	250.0	4.5
50°-60°	210.4	3.8
60°-70°	147.5	2.6
70°-80°	75.6	1.3
80°-90°	20.9	0.4
90°-100°	46.6	0.8
100°-110°	309.6	5.5
110°-120°	557.5	9.9
120°-130°	715.6	12.8
130°-140°	769.7	13.7
140°-150°	722.4	12.9
150°-160°	584.3	10.4
160°-170°	377.9	6.7
170°-180°	130.3	2.3
0°-30°	436.0	7.8
0°-40°	692.6	12.3
0°-60°	1153.1	20.6
0°-90°	1397.1	24.9
90°-120°	913.7	16.3
90°-150°	3121.4	55.6
90°-180°	4214.0	75.1
0°-180°	5611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	588	583	587	586	56
15°	561	558	548	548	544	158
25°	508	502	485	479	474	234
35°	438	427	407	394	388	274
45°	358	346	321	303	297	277
55°	272	258	233	213	206	243
65°	184	169	145	128	121	182
75°	98	85	66	56	53	104
85°	24	16	14	14	13	27
90°	1	9	16	21	24	4
95°	58	55	16	21	21	71
105°	299	303	303	303	302	317
115°	561	566	567	563	557	556
125°	798	805	805	801	798	713
135°	996	1002	1000	998	992	768
145°	1154	1156	1156	1157	1151	722
155°	1271	1265	1267	1270	1262	586
165°	1341	1335	1336	1342	1334	379
175°	1372	1366	1367	1375	1366	131
180°	1372	1372	1372	1372	1372	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	591.8	590.4	586.0	590.4	590.0
5°	589.5	587.8	582.9	587.3	586.4
7.5°	585.1	583.3	577.5	581.1	580.2
10°	578.4	577.1	570.8	572.2	570.8
12.5°	570.8	569.0	560.1	561.0	558.8
15°	560.6	557.9	548.5	548.1	544.1
17.5°	549.9	545.8	534.7	532.5	529.3
20°	536.9	532.5	518.2	516.0	512.0
22.5°	522.7	518.2	503.0	498.1	495.0
25°	508.4	501.7	485.2	479.4	474.5
27.5°	492.3	484.3	466.9	459.3	454.4
30°	474.5	466.0	447.3	437.0	433.0
32.5°	457.1	446.8	427.7	416.1	410.7
35°	437.9	427.2	407.2	394.2	388.0
37.5°	419.6	406.7	386.2	371.0	364.8
40°	400.0	386.6	365.2	348.3	342.9
42.5°	379.5	365.7	343.4	327.3	318.9
45°	358.5	345.6	321.1	303.2	296.6
47.5°	336.7	323.3	298.8	280.5	272.9
50°	316.2	301.5	276.0	257.3	250.6
52.5°	293.9	278.7	255.1	234.6	227.9
55°	272.0	257.8	232.8	212.7	205.6
57.5°	249.7	234.6	210.5	190.9	184.6
60°	228.3	212.7	188.6	169.0	162.3
62.5°	205.6	190.9	166.3	148.5	141.8
65°	184.2	169.0	145.4	127.5	120.9
67.5°	162.8	147.6	124.9	107.9	102.6
70°	140.9	125.8	103.5	89.6	84.3
72.5°	119.5	104.8	84.3	71.8	68.7
75°	98.1	84.7	66.0	56.2	53.1
77.5°	76.3	65.6	49.9	42.4	39.7
80°	58.0	47.3	34.8	30.8	29.9
82.5°	40.1	30.8	23.2	21.9	21.4
85°	24.5	16.5	14.3	13.8	13.4
87.5°	10.3	7.1	6.7	6.7	6.2
90°	1.0	9.2	16.3	21.4	24.4
92.5°	19.3	10.2	16.3	21.4	22.4
95°	58.0	54.9	16.3	21.4	21.4
97.5°	108.8	114.9	18.3	20.3	21.4
100°	169.8	172.9	176.9	25.4	21.4
102.5°	231.9	235.9	238.0	240.0	154.6
105°	299.0	303.0	303.0	303.0	302.0
107.5°	368.1	368.1	370.2	371.2	367.1
110°	435.2	435.2	437.3	434.2	435.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.3	501.3	502.4	498.3	496.3
115°	561.3	566.4	567.4	563.4	557.3
117.5°	627.4	627.4	631.5	625.4	623.4
120°	688.5	687.4	690.5	688.5	683.4
122.5°	742.4	747.4	748.5	746.4	740.3
125°	798.3	805.4	805.4	801.3	798.3
127.5°	852.2	857.3	856.2	854.2	846.1
130°	901.0	906.1	907.1	904.0	899.0
132.5°	949.8	955.9	952.9	952.9	947.8
135°	995.6	1001.7	999.6	997.6	991.5
137.5°	1038.3	1044.4	1042.3	1042.3	1037.3
140°	1080.0	1082.0	1081.0	1083.0	1076.9
142.5°	1117.6	1118.6	1120.6	1120.6	1114.5
145°	1154.2	1156.2	1156.2	1157.3	1151.2
147.5°	1186.7	1186.7	1187.8	1188.8	1181.7
150°	1217.3	1215.2	1217.3	1219.3	1211.2
152.5°	1246.7	1241.7	1243.7	1245.7	1238.6
155°	1271.2	1265.1	1267.1	1270.1	1262.0
157.5°	1290.5	1287.4	1287.4	1290.5	1282.3
160°	1310.8	1304.7	1305.7	1309.8	1301.7
162.5°	1327.1	1321.0	1322.0	1328.1	1318.9
165°	1341.3	1335.2	1336.2	1342.3	1334.2
167.5°	1352.5	1346.4	1347.4	1354.5	1345.4
170°	1361.7	1354.5	1355.6	1363.7	1354.5
172.5°	1367.8	1360.6	1362.7	1369.8	1360.6
175°	1371.8	1365.7	1366.7	1374.9	1365.7
177.5°	1374.9	1368.8	1369.8	1376.9	1368.8
180°	1371.8	1371.8	1371.8	1371.8	1371.8

(END OF REPORT)