

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: P1035888

Luminaire Tested: S125RDIW-B375D1050UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035888
REPORT IS A COMBINATION OF REPORTS P1006400 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1050UB50-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

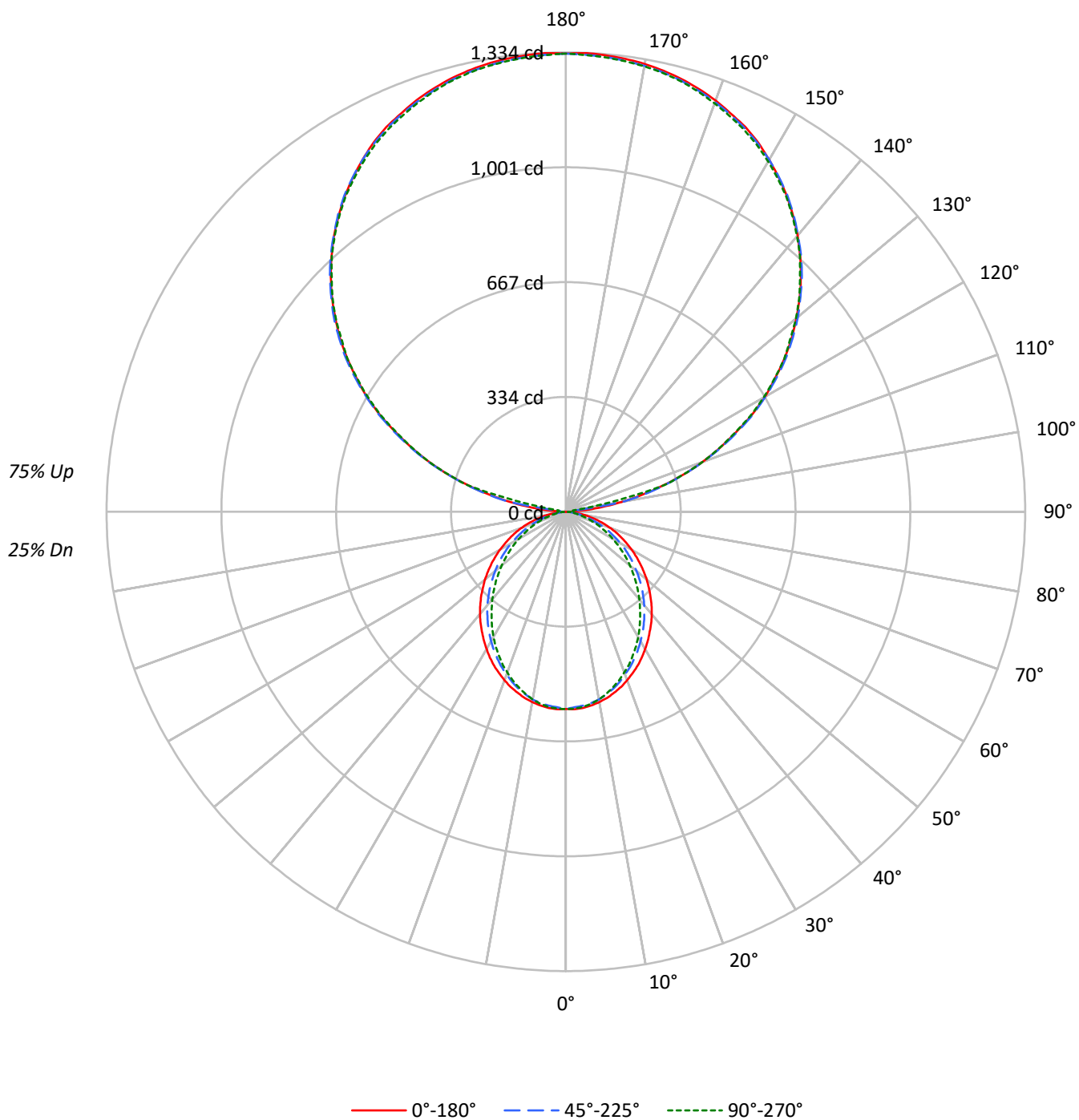
Lumens per Lamp: N/A
Luminaire Lumens: 5442.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	3669	3669	3669
5°	3670	3578	3584
10°	3634	3487	3457
15°	3582	3361	3290
20°	3519	3210	3115
25°	3446	3061	2928
30°	3356	2898	2732
35°	3265	2733	2523
40°	3179	2562	2319
45°	3075	2379	2105
50°	2969	2184	1888
55°	2845	1993	1662
60°	2721	1774	1428
65°	2570	1528	1176
70°	2396	1243	925
75°	2156	935	675
80°	1816	605	455
85°	1361	324	257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.0
10°-20°	150.6	2.8
20°-30°	218.4	4.0
30°-40°	248.8	4.6
40°-50°	242.5	4.5
50°-60°	204.1	3.8
60°-70°	143.0	2.6
70°-80°	73.3	1.3
80°-90°	20.3	0.4
90°-100°	45.2	0.8
100°-110°	300.3	5.5
110°-120°	540.7	9.9
120°-130°	694.1	12.8
130°-140°	746.5	13.7
140°-150°	700.6	12.9
150°-160°	566.7	10.4
160°-170°	366.5	6.7
170°-180°	126.4	2.3
0°-30°	422.9	7.8
0°-40°	671.7	12.3
0°-60°	1118.4	20.6
0°-90°	1355.0	24.9
90°-120°	886.2	16.3
90°-150°	3027.4	55.6
90°-180°	4087.0	75.1
0°-180°	5442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	572	570	565	570	569	54
15°	544	541	532	532	528	153
25°	493	487	471	465	460	227
35°	425	414	395	382	376	266
45°	348	335	311	294	288	268
55°	264	250	226	206	199	236
65°	179	164	141	124	117	177
75°	95	82	64	54	52	101
85°	24	16	14	13	13	26
90°	1	9	16	21	24	4
95°	56	53	16	21	21	69
105°	290	294	294	294	293	307
115°	544	549	550	546	540	540
125°	774	781	781	777	774	692
135°	966	972	970	968	962	744
145°	1119	1121	1121	1122	1116	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°	572.7	572.7	572.7	572.7	572.7
2.5°	574.0	572.7	568.3	572.7	572.2
5°	571.8	570.1	565.3	569.6	568.8
7.5°	567.5	565.7	560.1	563.6	562.7
10°	561.0	559.7	553.6	554.9	553.6
12.5°	553.6	551.9	543.3	544.1	542.0
15°	543.7	541.1	532.0	531.6	527.7
17.5°	533.3	529.4	518.6	516.4	513.4
20°	520.8	516.4	502.6	500.4	496.5
22.5°	506.9	502.6	487.9	483.1	480.1
25°	493.1	486.6	470.6	465.0	460.2
27.5°	477.5	469.7	452.9	445.5	440.7
30°	460.2	452.0	433.8	423.9	420.0
32.5°	443.3	433.4	414.8	403.5	398.4
35°	424.7	414.4	394.9	382.4	376.3
37.5°	407.0	394.5	374.6	359.9	353.8
40°	388.0	375.0	354.2	337.8	332.6
42.5°	368.1	354.7	333.0	317.5	309.3
45°	347.8	335.2	311.4	294.1	287.6
47.5°	326.6	313.6	289.8	272.1	264.7
50°	306.7	292.4	267.7	249.6	243.1
52.5°	285.0	270.3	247.4	227.5	221.0
55°	263.8	250.0	225.8	206.3	199.4
57.5°	242.2	227.5	204.2	185.1	179.1
60°	221.5	206.3	183.0	163.9	157.4
62.5°	199.4	185.1	161.3	144.0	137.5
65°	178.6	163.9	141.0	123.7	117.2
67.5°	157.9	143.2	121.1	104.7	99.5
70°	136.7	122.0	100.3	86.9	81.7
72.5°	115.9	101.6	81.7	69.6	66.6
75°	95.2	82.2	64.0	54.5	51.5
77.5°	74.0	63.6	48.4	41.1	38.5
80°	56.2	45.8	33.7	29.8	29.0
82.5°	38.9	29.8	22.5	21.2	20.8
85°	23.8	16.0	13.8	13.4	13.0
87.5°	9.9	6.9	6.5	6.5	6.1
90°	1.0	8.9	15.8	20.7	23.7
92.5°	18.7	9.9	15.8	20.7	21.7
95°	56.2	53.3	15.8	20.7	20.7
97.5°	105.5	111.5	17.8	19.7	20.7
100°	164.7	167.7	171.6	24.7	20.7
102.5°	224.9	228.8	230.8	232.8	149.9
105°	290.0	293.9	293.9	293.9	292.9
107.5°	357.0	357.0	359.0	360.0	356.1
110°	422.1	422.1	424.1	421.1	422.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	483.3	486.2	487.2	483.3	481.3
115°	544.4	549.4	550.3	546.4	540.5
117.5°	608.5	608.5	612.5	606.6	604.6
120°	667.7	666.7	669.7	667.7	662.8
122.5°	720.0	724.9	725.9	723.9	718.0
125°	774.2	781.1	781.1	777.2	774.2
127.5°	826.5	831.4	830.5	828.5	820.6
130°	873.9	878.8	879.8	876.8	871.9
132.5°	921.2	927.1	924.2	924.2	919.2
135°	965.6	971.5	969.5	967.5	961.6
137.5°	1007.0	1012.9	1010.9	1010.9	1006.0
140°	1047.4	1049.4	1048.4	1050.4	1044.5
142.5°	1083.9	1084.9	1086.9	1086.9	1081.0
145°	1119.4	1121.4	1121.4	1122.4	1116.5
147.5°	1151.0	1151.0	1152.0	1153.0	1146.1
150°	1180.6	1178.6	1180.6	1182.6	1174.7
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)