

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: P1035238

Luminaire Tested: S125DIW-B375D1050UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035238
REPORT IS A COMBINATION OF REPORTS P1003386 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1050UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

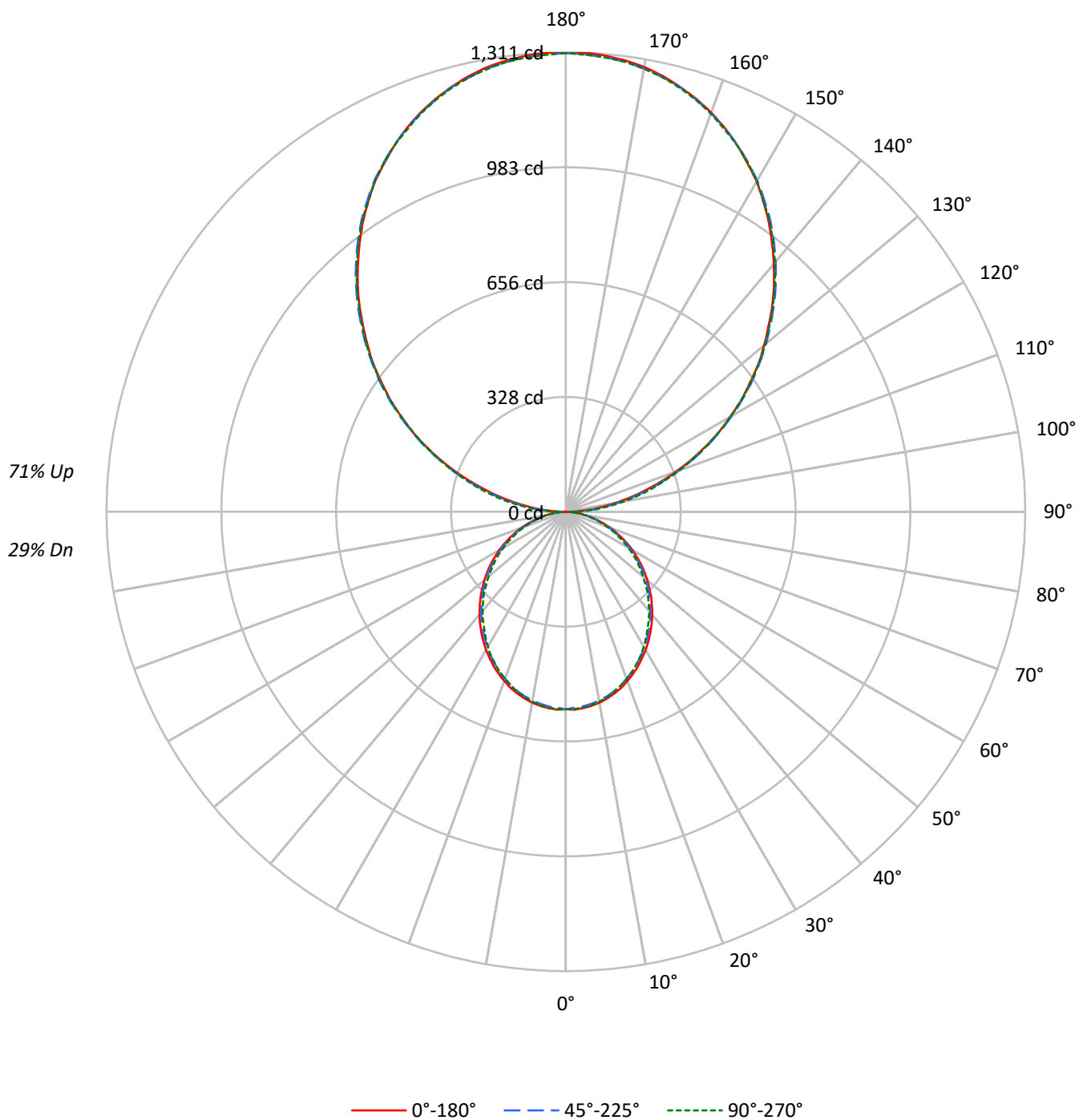
Lumens per Lamp: N/A
Luminaire Lumens: 5123.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	3611	3611	3611
5°	3611	3528	3534
10°	3581	3446	3436
15°	3534	3350	3320
20°	3471	3238	3187
25°	3402	3115	3045
30°	3321	2988	2894
35°	3232	2855	2726
40°	3142	2713	2577
45°	3043	2575	2418
50°	2935	2419	2233
55°	2828	2247	2063
60°	2700	2065	1865
65°	2547	1855	1660
70°	2391	1614	1424
75°	2131	1330	1151
80°	1816	993	848
85°	1401	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.0
10°-20°	150.2	2.9
20°-30°	221.8	4.3
30°-40°	258.8	5.1
40°-50°	259.9	5.1
50°-60°	228.1	4.5
60°-70°	169.9	3.3
70°-80°	97.1	1.9
80°-90°	30.0	0.6
90°-100°	87.1	1.7
100°-110°	258.6	5.0
110°-120°	438.6	8.6
120°-130°	577.5	11.3
130°-140°	647.1	12.6
140°-150°	634.3	12.4
150°-160°	532.8	10.4
160°-170°	354.1	6.9
170°-180°	123.9	2.4
0°-30°	425.2	8.3
0°-40°	684.0	13.4
0°-60°	1172.0	22.9
0°-90°	1469.0	28.7
90°-120°	784.3	15.3
90°-150°	2643.2	51.6
90°-180°	3654.0	71.3
0°-180°	5123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	561	53
15°	536	535	530	532	532	151
25°	487	485	479	480	478	224
35°	420	419	412	410	407	263
45°	344	342	337	332	330	265
55°	262	261	255	251	248	234
65°	177	176	171	167	165	176
75°	94	93	91	90	88	100
85°	24	25	25	24	24	27
90°	1	9	16	21	24	6
95°	66	68	78	86	88	69
105°	232	237	244	250	253	248
115°	439	443	445	444	443	434
125°	641	647	648	646	645	574
135°	833	840	841	841	836	642
145°	1010	1014	1017	1017	1014	631
155°	1155	1155	1156	1160	1155	532
165°	1256	1254	1255	1259	1253	354
175°	1306	1302	1302	1308	1301	124
180°	1309	1309	1309	1309	1309	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	565.4	564.1	559.6	564.1	563.6
5°	562.7	561.9	557.4	561.4	561.0
7.5°	558.7	557.8	552.9	556.9	556.5
10°	552.9	552.0	547.1	550.7	550.3
12.5°	545.8	544.0	539.6	542.2	542.2
15°	536.4	535.1	530.2	532.4	532.4
17.5°	526.6	524.4	519.5	522.2	519.9
20°	513.7	512.8	507.0	510.1	507.9
22.5°	500.8	499.0	493.6	495.4	494.1
25°	486.9	484.7	478.9	479.8	478.5
27.5°	470.9	469.5	463.7	464.2	462.9
30°	455.3	453.9	447.3	446.4	445.0
32.5°	438.3	436.1	430.3	428.5	425.8
35°	420.5	418.7	412.5	410.2	406.7
37.5°	402.2	400.0	394.2	391.1	388.8
40°	383.5	381.3	375.0	371.0	369.7
42.5°	363.4	361.6	355.4	351.8	349.6
45°	344.2	342.5	337.1	331.8	330.4
47.5°	323.3	323.7	317.0	311.7	308.6
50°	303.2	301.9	296.5	290.7	287.6
52.5°	282.7	281.8	276.0	271.1	267.5
55°	262.2	260.9	254.6	250.6	247.5
57.5°	240.3	239.9	234.6	229.2	227.9
60°	219.8	218.1	213.1	208.7	205.6
62.5°	198.4	197.1	193.1	188.2	185.9
65°	177.0	176.1	171.2	167.2	165.4
67.5°	156.1	154.3	150.7	147.2	146.3
70°	136.4	134.2	130.2	127.5	125.7
72.5°	115.0	113.7	111.5	108.4	106.6
75°	94.1	93.2	91.0	89.6	87.8
77.5°	74.5	74.0	72.7	71.8	70.5
80°	56.2	56.2	55.3	54.8	54.0
82.5°	40.1	39.2	39.2	38.3	38.3
85°	24.5	25.0	25.0	24.5	23.6
87.5°	12.0	12.0	11.6	11.6	10.7
90°	1.0	9.2	16.3	21.4	24.5
92.5°	30.6	35.7	44.8	52.0	54.0
95°	66.2	68.3	78.5	85.6	87.6
97.5°	101.9	102.9	117.2	123.3	124.3
100°	142.6	142.6	155.9	165.1	167.1
102.5°	186.5	191.5	196.6	206.8	209.9
105°	232.3	237.4	243.5	249.6	252.7
107.5°	282.2	287.3	292.4	295.5	295.5
110°	334.2	339.3	342.3	345.4	344.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.2	389.2	393.3	394.3	392.3
115°	439.1	443.2	445.2	444.2	443.2
117.5°	492.1	493.1	495.2	496.2	492.1
120°	541.0	546.1	547.1	547.1	543.1
122.5°	594.0	595.0	598.1	597.1	594.0
125°	640.9	647.0	648.0	646.0	644.9
127.5°	692.8	695.9	696.9	695.9	693.8
130°	738.7	743.8	745.8	744.8	742.7
132.5°	784.5	793.7	792.7	791.7	788.6
135°	833.4	839.5	840.6	840.6	836.5
137.5°	879.3	885.4	887.4	888.4	883.3
140°	923.1	928.2	931.2	933.3	928.2
142.5°	966.9	971.0	975.0	976.1	971.0
145°	1009.7	1013.8	1016.8	1016.8	1013.8
147.5°	1049.4	1052.5	1054.5	1057.6	1049.4
150°	1089.2	1088.1	1092.2	1092.2	1090.2
152.5°	1121.8	1123.8	1124.8	1127.9	1123.8
155°	1155.4	1155.4	1156.4	1160.5	1155.4
157.5°	1186.0	1183.9	1184.9	1189.0	1181.9
160°	1212.4	1209.4	1210.4	1214.5	1209.4
162.5°	1235.9	1233.8	1233.8	1238.9	1232.8
165°	1256.3	1254.2	1255.2	1259.3	1253.2
167.5°	1274.6	1270.5	1270.5	1276.6	1270.5
170°	1288.9	1284.8	1284.8	1290.9	1283.8
172.5°	1299.0	1295.0	1295.0	1301.1	1295.0
175°	1306.2	1302.1	1302.1	1308.2	1301.1
177.5°	1311.3	1307.2	1306.2	1312.3	1305.2
180°	1309.2	1309.2	1309.2	1309.2	1309.2

(END OF REPORT)