

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: P1035256

Luminaire Tested: S125DIW-B375D1050UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035256
REPORT IS A COMBINATION OF REPORTS P1003434 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1050UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

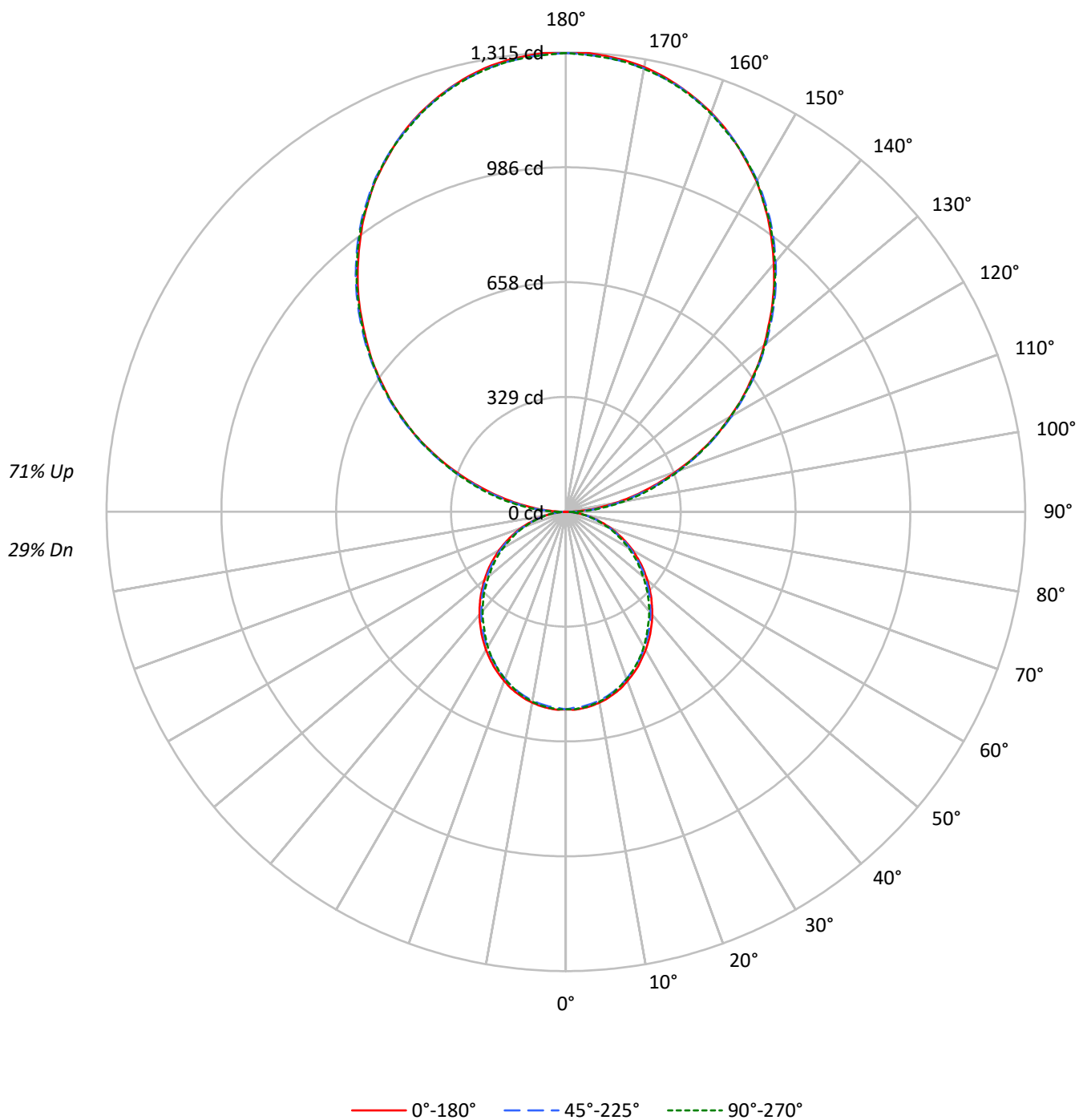
Lumens per Lamp: N/A
Luminaire Lumens: 5139.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1035256

CATALOG NUMBER: S125DIW-B375D1050UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1035256

CATALOG NUMBER: S125DIW-B375D1050UB40-4F0-XX-W2A-F1

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°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

TEST NUMBER: P1035256

CATALOG NUMBER: S125DIW-B375D1050UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.0
10°-20°	150.7	2.9
20°-30°	222.5	4.3
30°-40°	259.6	5.1
40°-50°	260.8	5.1
50°-60°	228.9	4.5
60°-70°	170.5	3.3
70°-80°	97.4	1.9
80°-90°	30.2	0.6
90°-100°	87.3	1.7
100°-110°	259.4	5.0
110°-120°	440.0	8.6
120°-130°	579.2	11.3
130°-140°	649.0	12.6
140°-150°	636.2	12.4
150°-160°	534.4	10.4
160°-170°	355.2	6.9
170°-180°	124.3	2.4
0°-30°	426.7	8.3
0°-40°	686.3	13.4
0°-60°	1176.0	22.9
0°-90°	1474.1	28.7
90°-120°	786.7	15.3
90°-150°	2651.1	51.6
90°-180°	3665.0	71.3
0°-180°	5139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	1	9	16	22	24	6
95°	66	68	79	86	88	69
105°	233	238	244	250	253	248
115°	440	444	447	446	444	436
125°	643	649	650	648	647	576
135°	836	842	843	843	839	644
145°	1013	1017	1020	1020	1017	633
155°	1159	1159	1160	1164	1159	534
165°	1260	1258	1259	1263	1257	356
175°	1310	1306	1306	1312	1305	125
180°	1313	1313	1313	1313	1313	

TEST NUMBER: P1035256

CATALOG NUMBER: S125DIW-B375D1050UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	1.0	9.2	16.4	21.5	24.5
92.5°	30.7	35.8	45.0	52.1	54.2
95°	66.4	68.5	78.7	85.8	87.9
97.5°	102.2	103.2	117.5	123.7	124.7
100°	143.1	143.1	156.4	165.6	167.6
102.5°	187.0	192.1	197.2	207.5	210.5
105°	233.0	238.1	244.2	250.4	253.4
107.5°	283.1	288.2	293.3	296.4	296.4
110°	335.2	340.3	343.4	346.4	345.4

TEST NUMBER: P1035256

CATALOG NUMBER: S125DIW-B375D1050UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	388.3	390.4	394.5	395.5	393.4
115°	440.4	444.5	446.6	445.6	444.5
117.5°	493.6	494.6	496.7	497.7	493.6
120°	542.6	547.8	548.8	548.8	544.7
122.5°	595.8	596.8	599.9	598.8	595.8
125°	642.8	648.9	649.9	647.9	646.9
127.5°	694.9	698.0	699.0	698.0	695.9
130°	740.9	746.0	748.0	747.0	745.0
132.5°	786.9	796.1	795.1	794.0	791.0
135°	835.9	842.1	843.1	843.1	839.0
137.5°	881.9	888.1	890.1	891.1	886.0
140°	925.9	931.0	934.0	936.1	931.0
142.5°	969.8	973.9	978.0	979.0	973.9
145°	1012.7	1016.8	1019.9	1019.9	1016.8
147.5°	1052.6	1055.6	1057.7	1060.8	1052.6
150°	1092.4	1091.4	1095.5	1095.5	1093.5
152.5°	1125.1	1127.2	1128.2	1131.3	1127.2
155°	1158.9	1158.9	1159.9	1164.0	1158.9
157.5°	1189.5	1187.5	1188.5	1192.6	1185.4
160°	1216.1	1213.0	1214.0	1218.1	1213.0
162.5°	1239.6	1237.5	1237.5	1242.7	1236.5
165°	1260.0	1258.0	1259.0	1263.1	1257.0
167.5°	1278.4	1274.3	1274.3	1280.5	1274.3
170°	1292.7	1288.6	1288.6	1294.8	1287.6
172.5°	1303.0	1298.9	1298.9	1305.0	1298.9
175°	1310.1	1306.0	1306.0	1312.1	1305.0
177.5°	1315.2	1311.1	1310.1	1316.2	1309.1
180°	1313.2	1313.2	1313.2	1313.2	1313.2

(END OF REPORT)