

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: PORTFOLIO

Report Number: P747237

Luminaire Tested: LD4D35BD010-EU4DR6020359027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P747237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D35BD010-EU4DR6020359027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

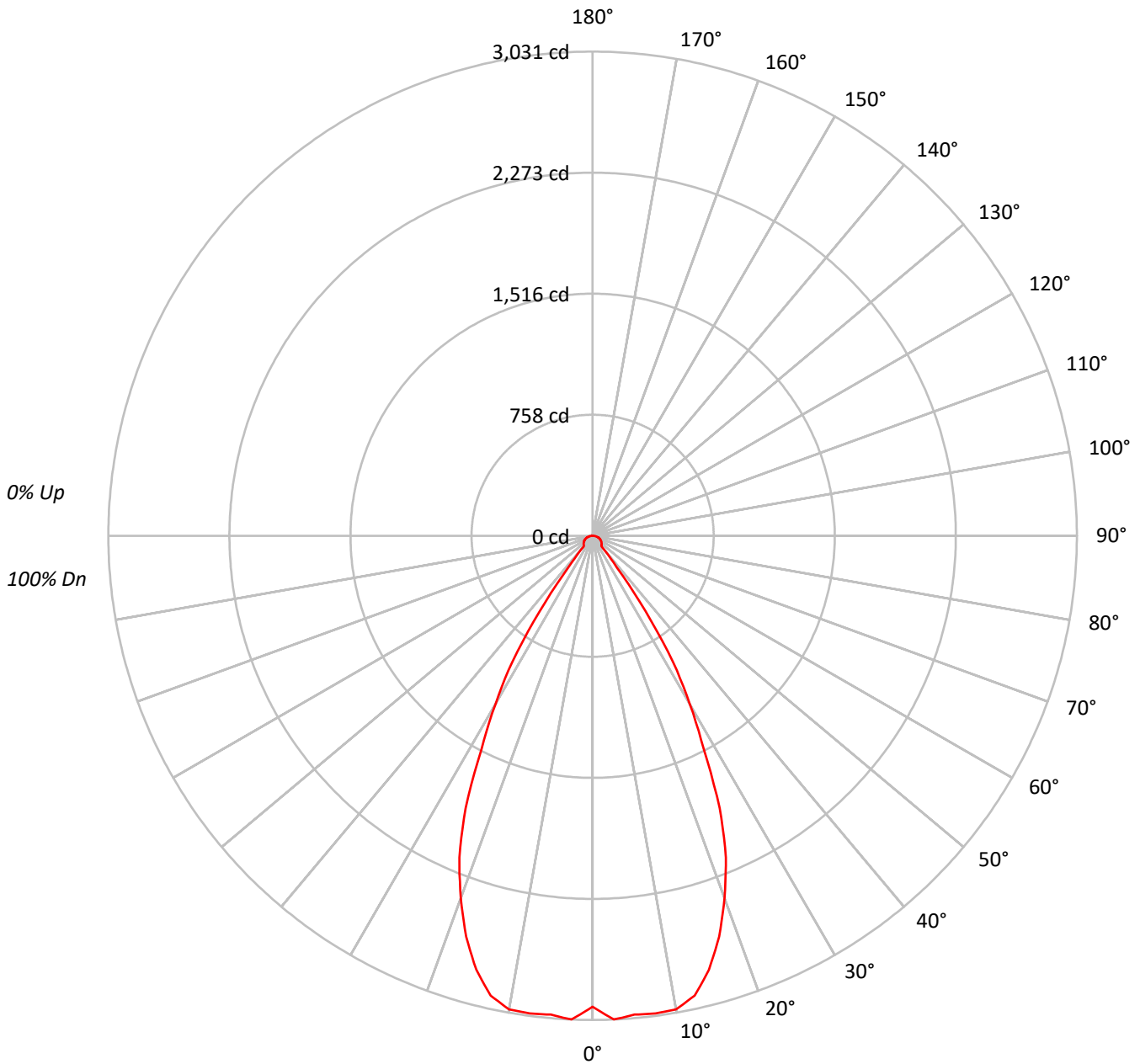
Lumens per Lamp: N/A
Luminaire Lumens: 2482.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
Input Voltage (V): NR
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: P747237
CATALOG NUMBER: LD4D35BD010-EU4DR6020359027-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P747237

CATALOG NUMBER: LD4D35BD010-EU4DR6020359027-4LBSQW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	322101
5°	330021
10°	334004
15°	318181
20°	280543
25°	226910
30°	153490
35°	76908
40°	12480
45°	12207
50°	12460
55°	12649
60°	13002
65°	13289
70°	13609
75°	13762
80°	13276
85°	11032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 13762 cd/sqm



TEST NUMBER: P747237

CATALOG NUMBER: LD4D35BD010-EU4DR6020359027-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	11.6
10°-20°	778.1	31.3
20°-30°	837.1	33.7
30°-40°	363.9	14.7
40°-50°	61.1	2.5
50°-60°	59.4	2.4
60°-70°	50.8	2.0
70°-80°	34.0	1.4
80°-90°	10.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1902.8	76.7
0°-40°	2266.7	91.3
0°-60°	2387.2	96.2
0°-90°	2482.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2948	
5°	3009	288
15°	2813	778
25°	1882	837
35°	577	364
45°	79	61
55°	66	59
65°	51	51
75°	33	34
85°	9	10
90°	0	



TEST NUMBER: P747237

CATALOG NUMBER: LD4D35BD010-EU4DR6020359027-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	2948.0
2.5°	3030.9
5°	3009.0
7.5°	3015.9
10°	3010.5
12.5°	2948.4
15°	2812.9
17.5°	2631.1
20°	2412.8
22.5°	2179.1
25°	1882.2
27.5°	1505.5
30°	1216.6
32.5°	937.6
35°	576.6
37.5°	246.7
40°	87.5
42.5°	80.6
45°	79.0
47.5°	76.3
50°	73.3
52.5°	69.8
55°	66.4
57.5°	62.9
60°	59.5
62.5°	55.6
65°	51.4
67.5°	47.2
70°	42.6
72.5°	37.6
75°	32.6
77.5°	26.9
80°	21.1
82.5°	15.0
85°	8.8
87.5°	3.1
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)