

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: P755830

Luminaire Tested: LD4D90BD010-EU4DR6070959030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755830
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: LD4D90BD010-EU4DR6070959030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

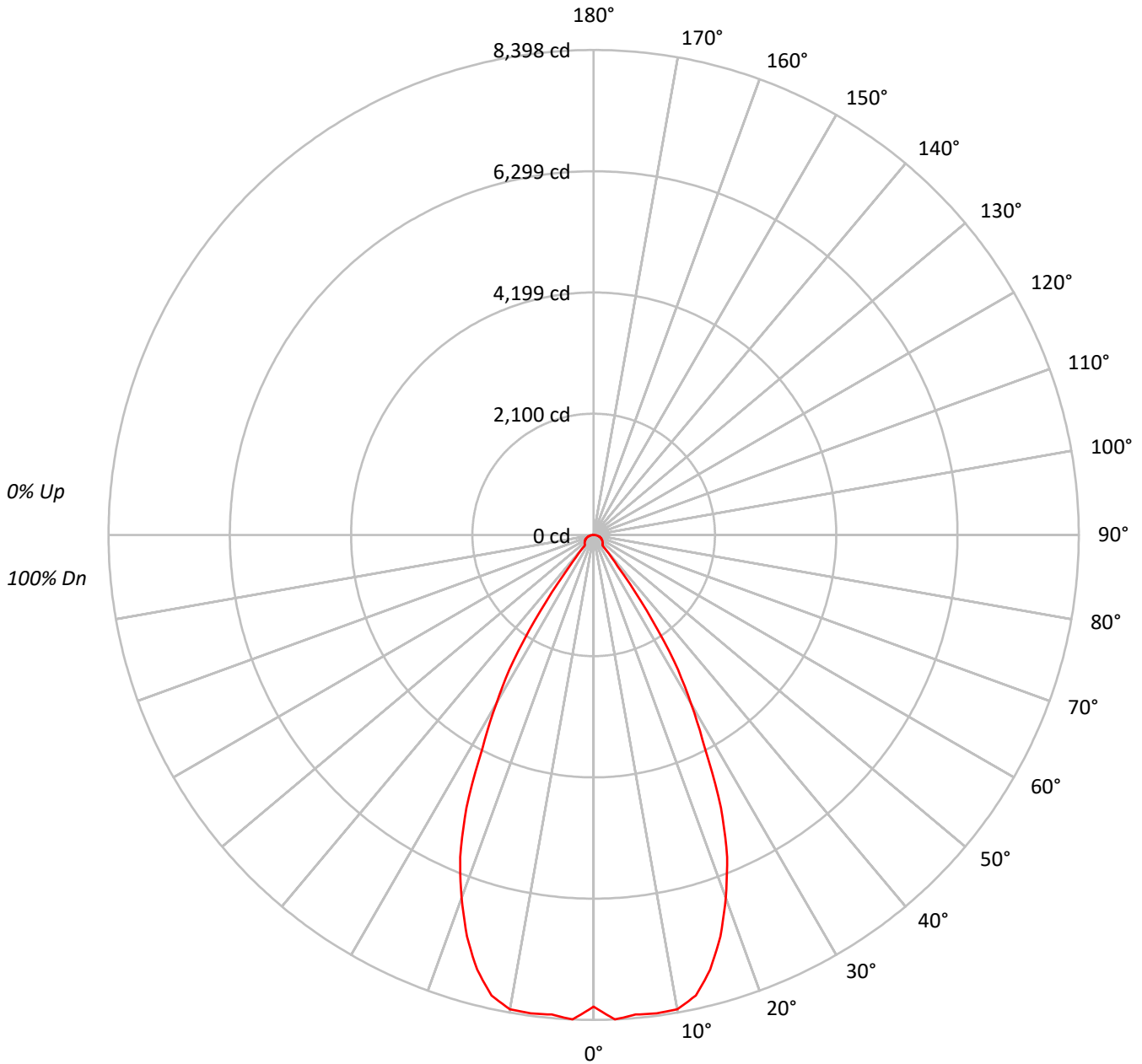
Lumens per Lamp: N/A
Luminaire Lumens: 6878.1 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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: P755830
CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P755830

CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBSQW1B

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°	892496
5°	914452
10°	925492
15°	881653
20°	777354
25°	628747
30°	425297
35°	213119
40°	34573
45°	33839
50°	34506
55°	35031
60°	36012
65°	36815
70°	37696
75°	38162
80°	36809
85°	30714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 38162 cd/sqm



TEST NUMBER: P755830

CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.9	11.6
10°-20°	2156.0	31.3
20°-30°	2319.6	33.7
30°-40°	1008.3	14.7
40°-50°	169.3	2.5
50°-60°	164.7	2.4
60°-70°	140.8	2.0
70°-80°	94.3	1.4
80°-90°	28.2	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°	5272.5	76.7
0°-40°	6280.8	91.3
0°-60°	6614.7	96.2
0°-90°	6878.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6878.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8168	
5°	8338	797
15°	7794	2156
25°	5215	2320
35°	1598	1008
45°	219	169
55°	184	165
65°	142	141
75°	90	94
85°	24	28
90°	0	



TEST NUMBER: P755830

CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	8168.5
2.5°	8398.2
5°	8337.6
7.5°	8356.7
10°	8341.8
12.5°	8169.6
15°	7794.3
17.5°	7290.5
20°	6685.6
22.5°	6038.2
25°	5215.4
27.5°	4171.4
30°	3371.0
32.5°	2598.1
35°	1597.8
37.5°	683.5
40°	242.4
42.5°	223.2
45°	219.0
47.5°	211.5
50°	203.0
52.5°	193.5
55°	183.9
57.5°	174.3
60°	164.8
62.5°	154.1
65°	142.4
67.5°	130.8
70°	118.0
72.5°	104.2
75°	90.4
77.5°	74.4
80°	58.5
82.5°	41.5
85°	24.5
87.5°	8.5
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)