

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: P754453

Luminaire Tested: LD4D80BD010-EU4DR7070959040-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR7070959040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6685.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

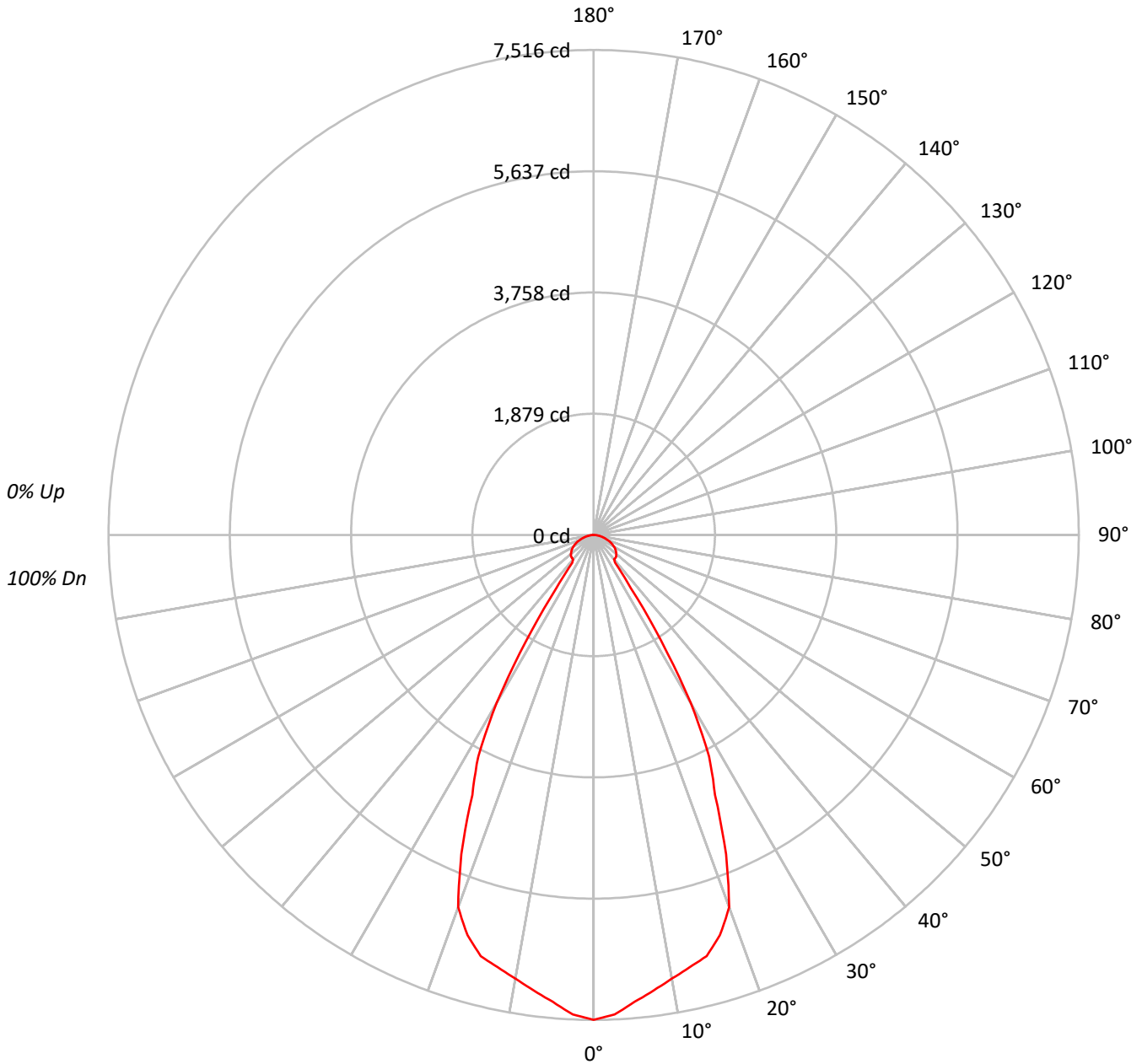
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	821193
5°	796790
10°	774583
15°	764420
20°	713811
25°	536245
30°	379083
35°	134276
40°	70602
45°	75204
50°	77868
55°	79339
60°	79826
65°	78155
70°	73763
75°	68304
80°	60656
85°	49268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 79856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.2	10.3
10°-20°	1879.6	28.1
20°-30°	2070.1	31.0
30°-40°	790.9	11.8
40°-50°	373.5	5.6
50°-60°	371.3	5.6
60°-70°	297.3	4.4
70°-80°	170.8	2.6
80°-90°	46.5	0.7
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°	4634.8	69.3
0°-40°	5425.7	81.2
0°-60°	6170.5	92.3
0°-90°	6685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6685.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7516	
5°	7265	685
15°	6758	1880
25°	4448	2070
35°	1007	791
45°	487	373
55°	416	371
65°	302	297
75°	162	171
85°	39	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7515.9
2.5°	7437.3
5°	7264.8
7.5°	7120.8
10°	6981.6
12.5°	6863.8
15°	6757.9
17.5°	6502.0
20°	6139.1
22.5°	5356.1
25°	4448.1
27.5°	3872.2
30°	3004.7
32.5°	1940.8
35°	1006.7
37.5°	543.8
40°	495.0
42.5°	491.5
45°	486.7
47.5°	476.0
50°	458.1
52.5°	437.9
55°	416.5
57.5°	392.7
60°	365.3
62.5°	334.4
65°	302.3
67.5°	266.6
70°	230.9
72.5°	195.2
75°	161.8
77.5°	127.3
80°	96.4
82.5°	67.8
85°	39.3
87.5°	15.5
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

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— 0°-180°

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