

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: P748174

Luminaire Tested: LD4D40BD010-EU4DR7040509027-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748174
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: LD4D40BD010-EU4DR7040509027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3032.3 lumens
Efficiency: N/A
Efficacy: 86.1 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

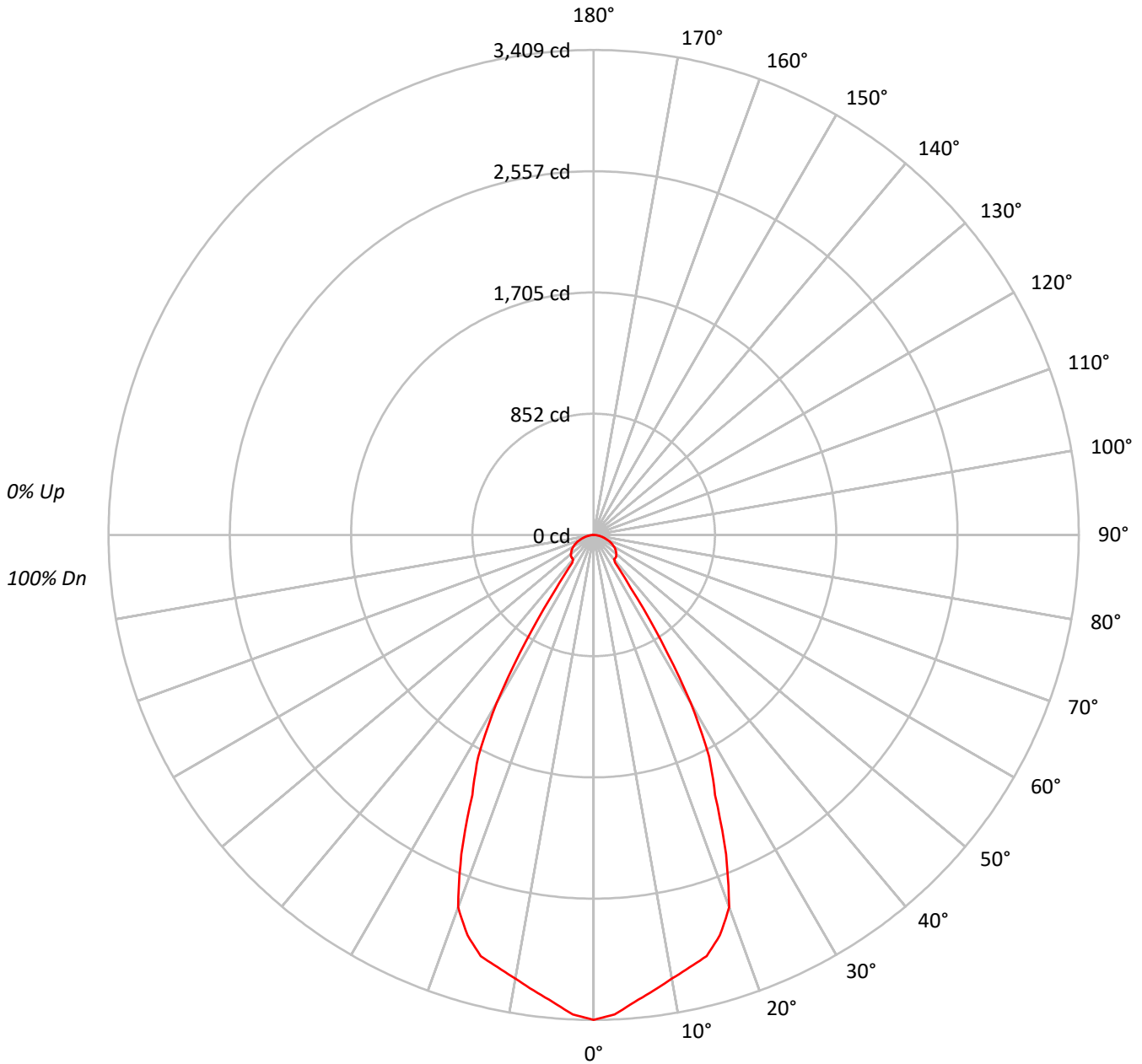
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	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°	372492
5°	361422
10°	351356
15°	346743
20°	323785
25°	243246
30°	171948
35°	60903
40°	32020
45°	34118
50°	35322
55°	35984
60°	36209
65°	35445
70°	33447
75°	30986
80°	27496
85°	22315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 36217 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	10.3
10°-20°	852.6	28.1
20°-30°	939.0	31.0
30°-40°	358.8	11.8
40°-50°	169.4	5.6
50°-60°	168.4	5.6
60°-70°	134.8	4.4
70°-80°	77.5	2.6
80°-90°	21.1	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°	2102.4	69.3
0°-40°	2461.1	81.2
0°-60°	2798.9	92.3
0°-90°	3032.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3032.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3409	
5°	3295	311
15°	3065	853
25°	2018	939
35°	457	359
45°	221	169
55°	189	168
65°	137	135
75°	73	77
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3409.2
2.5°	3373.6
5°	3295.3
7.5°	3230.0
10°	3166.9
12.5°	3113.4
15°	3065.4
17.5°	2949.3
20°	2784.7
22.5°	2429.5
25°	2017.7
27.5°	1756.4
30°	1362.9
32.5°	880.4
35°	456.6
37.5°	246.7
40°	224.5
42.5°	222.9
45°	220.8
47.5°	215.9
50°	207.8
52.5°	198.6
55°	188.9
57.5°	178.1
60°	165.7
62.5°	151.7
65°	137.1
67.5°	120.9
70°	104.7
72.5°	88.5
75°	73.4
77.5°	57.8
80°	43.7
82.5°	30.8
85°	17.8
87.5°	7.0
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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