

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: P753803

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR3070959030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6248.3 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

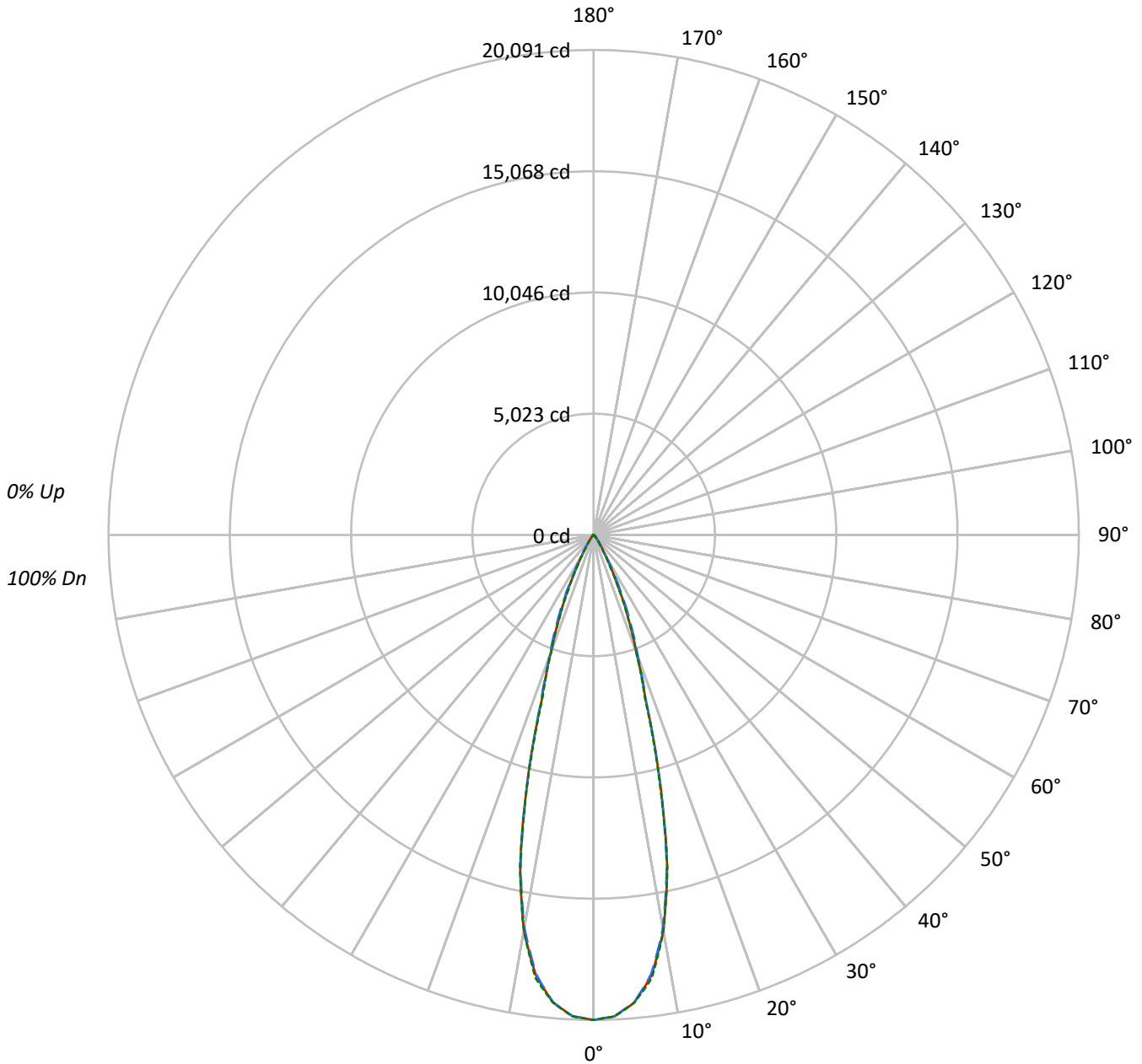
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1537856	1537856	1537856
5°	1493711	1491966	1493780
10°	1293774	1284657	1293471
15°	844126	839593	835370
20°	419742	435495	419180
25°	211436	238429	207104
30°	84655	92238	73757
35°	39264	37610	31527
40°	16956	18825	15967
45°	11961	14841	12070
50°	4108	10812	4346
55°	2375	4471	2496
60°	1669	1960	1669
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14841 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1766.7	28.3
10°-20°	2845.3	45.5
20°-30°	1229.5	19.7
30°-40°	280.2	4.5
40°-50°	96.2	1.5
50°-60°	23.5	0.4
60°-70°	6.1	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
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°	5841.6	93.5
0°-40°	6121.8	98.0
0°-60°	6241.5	99.9
0°-90°	6248.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6248.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20091	20091	20091	20091	20091	
5°	19440	19422	19418	19458	19441	1768
15°	10652	10524	10595	10561	10542	2852
25°	2504	2598	2823	2532	2452	1198
35°	420	429	402	400	337	285
45°	110	137	137	137	112	78
55°	18	19	34	20	19	17
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20091.3	20091.3	20091.3	20091.3	20091.3
2.5°	19958.1	19944.3	19952.2	19962.1	19966.0
5°	19440.3	19421.5	19417.6	19458.0	19441.2
7.5°	18395.6	18369.0	18328.6	18420.3	18506.1
10°	16645.7	16616.1	16528.4	16571.8	16641.8
12.5°	14062.3	13966.6	13964.7	14102.8	14084.0
15°	10652.3	10524.1	10595.1	10560.6	10541.8
17.5°	7163.3	7114.0	7208.7	7180.1	7056.8
20°	5153.0	5165.9	5346.4	5255.6	5146.1
22.5°	3760.2	3806.6	4020.6	3786.8	3701.0
25°	2503.5	2598.2	2823.1	2532.1	2452.2
27.5°	1539.8	1583.2	1811.1	1520.1	1476.7
30°	957.8	936.1	1043.6	895.7	834.5
32.5°	628.3	600.7	635.3	570.1	520.8
35°	420.2	429.1	402.5	399.5	337.4
37.5°	262.4	301.8	266.3	284.1	217.0
40°	169.7	219.0	188.4	208.1	159.8
42.5°	139.1	168.7	154.9	164.7	142.0
45°	110.5	137.1	137.1	137.1	111.5
47.5°	61.2	91.7	117.4	93.7	65.1
50°	34.5	46.4	90.8	48.3	36.5
52.5°	23.7	26.6	62.1	27.6	24.7
55°	17.8	18.7	33.5	19.7	18.7
57.5°	13.8	14.8	17.8	14.8	13.8
60°	10.9	10.9	12.8	11.8	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	3.9	3.9	3.9	3.9
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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