

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: P747589

Luminaire Tested: LD4D40BD010-EU4DR3040509040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747589
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: LD4D40BD010-EU4DR3040509040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

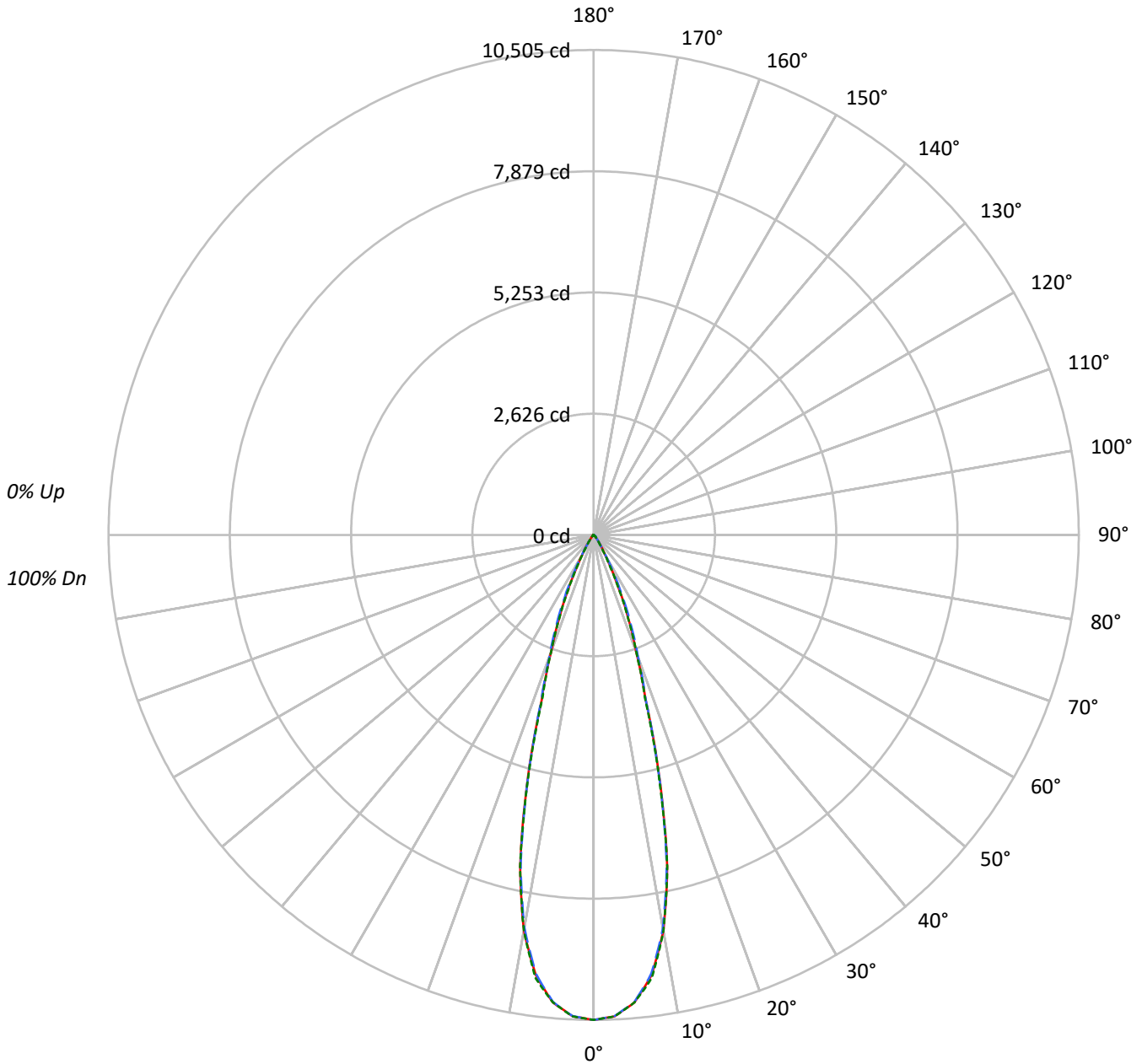
Lumens per Lamp: N/A
Luminaire Lumens: 3267.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	804096	804096	804096
5°	781013	780098	781051
10°	676473	671708	676317
15°	441371	438993	436790
20°	219474	227701	219173
25°	110553	124666	108290
30°	44263	48232	38562
35°	20529	19660	16483
40°	8863	9842	8353
45°	6257	7761	6311
50°	2155	5656	2274
55°	1241	2335	1308
60°	873	1026	873
65°	561	561	561
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.8	28.3
10°-20°	1487.7	45.5
20°-30°	642.9	19.7
30°-40°	146.5	4.5
40°-50°	50.3	1.5
50°-60°	12.3	0.4
60°-70°	3.2	0.1
70°-80°	0.3	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°	3054.4	93.5
0°-40°	3200.9	98.0
0°-60°	3263.5	99.9
0°-90°	3267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10505	10505	10505	10505	10505	
5°	10165	10155	10153	10174	10165	925
15°	5570	5503	5540	5522	5512	1491
25°	1309	1358	1476	1324	1282	627
35°	220	224	210	209	176	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10505.1	10505.1	10505.1	10505.1	10505.1
2.5°	10435.5	10428.3	10432.4	10437.5	10439.6
5°	10164.7	10154.9	10152.8	10174.0	10165.2
7.5°	9618.5	9604.6	9583.4	9631.4	9676.3
10°	8703.5	8688.1	8642.2	8664.9	8701.5
12.5°	7352.8	7302.7	7301.7	7373.9	7364.1
15°	5569.8	5502.7	5539.8	5521.8	5512.0
17.5°	3745.5	3719.7	3769.2	3754.3	3689.8
20°	2694.4	2701.1	2795.4	2748.0	2690.7
22.5°	1966.1	1990.3	2102.3	1980.0	1935.2
25°	1309.0	1358.5	1476.1	1324.0	1282.2
27.5°	805.1	827.8	946.9	794.8	772.1
30°	500.8	489.5	545.7	468.3	436.3
32.5°	328.5	314.1	332.2	298.1	272.3
35°	219.7	224.4	210.4	208.9	176.4
37.5°	137.2	157.8	139.3	148.5	113.5
40°	88.7	114.5	98.5	108.8	83.6
42.5°	72.7	88.2	81.0	86.1	74.3
45°	57.8	71.7	71.7	71.7	58.3
47.5°	32.0	48.0	61.4	49.0	34.0
50°	18.1	24.2	47.5	25.3	19.1
52.5°	12.4	13.9	32.5	14.4	12.9
55°	9.3	9.8	17.5	10.3	9.8
57.5°	7.2	7.7	9.3	7.7	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.1	2.1	2.1	2.1
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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