

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: P753022

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753022
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: LD4D75BD010-EU4DR3070959030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

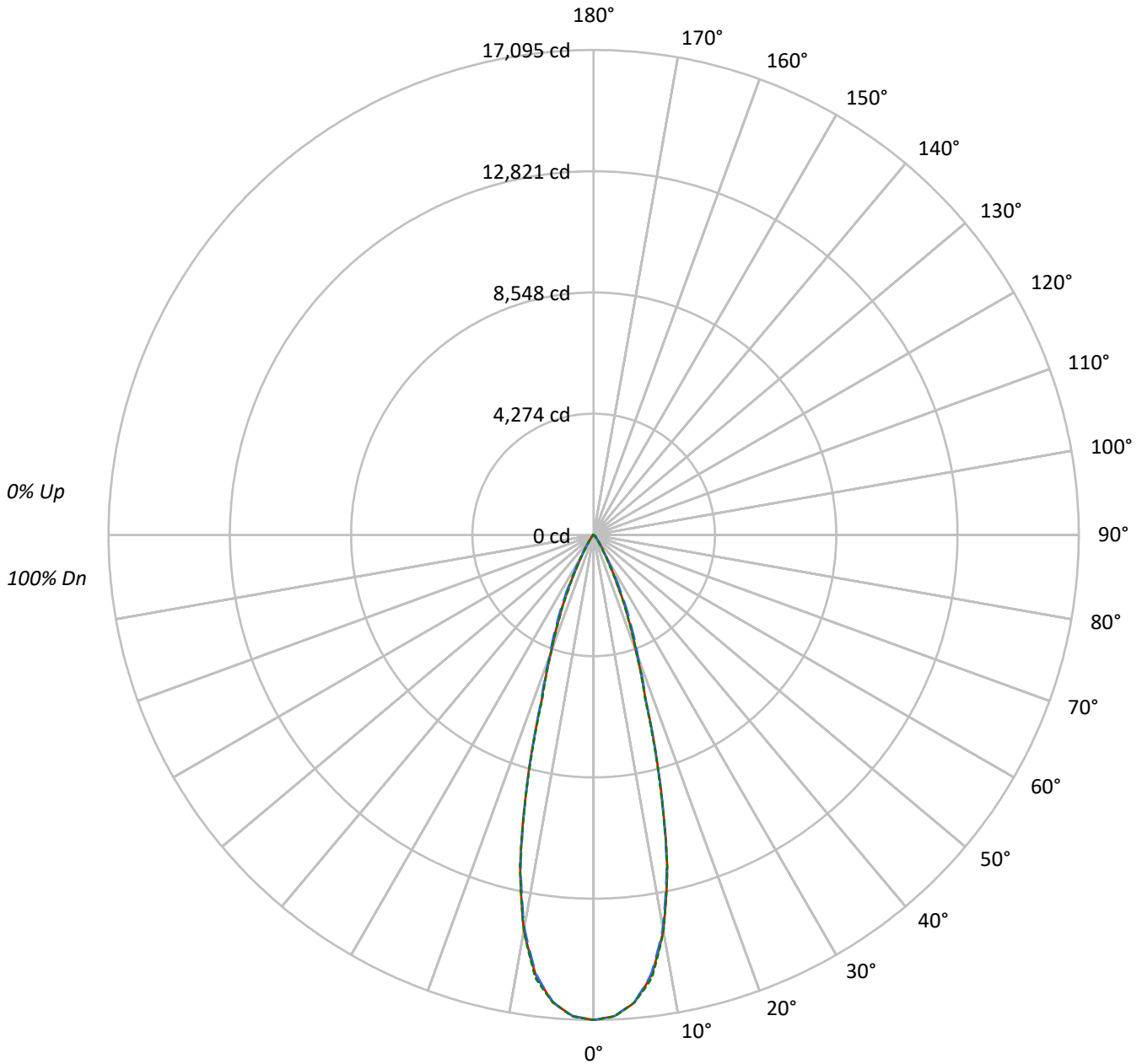
Lumens per Lamp: N/A
Luminaire Lumens: 5316.3 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1308479	1308479	1308479
5°	1270918	1269435	1270979
10°	1100808	1093043	1100544
15°	718224	714365	710775
20°	357135	370534	356662
25°	179900	202864	176218
30°	72025	78486	62753
35°	33406	31995	26818
40°	14428	16017	13589
45°	10175	12633	10262
50°	3501	9193	3703
55°	2015	3803	2122
60°	1408	1669	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12633 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1503.2	28.3
10°-20°	2420.9	45.5
20°-30°	1046.1	19.7
30°-40°	238.4	4.5
40°-50°	81.9	1.5
50°-60°	20.0	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	4970.3	93.5
0°-40°	5208.7	98.0
0°-60°	5310.6	99.9
0°-90°	5316.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5316.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17095	17095	17095	17095	17095	
5°	16541	16525	16521	16556	16542	1504
15°	9064	8954	9015	8985	8970	2427
25°	2130	2211	2402	2154	2086	1020
35°	358	365	342	340	287	243
45°	94	117	117	117	95	67
55°	15	16	28	17	16	15
65°	5	5	5	5	5	5
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°	17094.6	17094.6	17094.6	17094.6	17094.6
2.5°	16981.3	16969.6	16976.3	16984.7	16988.0
5°	16540.7	16524.7	16521.4	16555.8	16541.5
7.5°	15651.9	15629.2	15594.8	15672.9	15745.9
10°	14163.0	14137.8	14063.1	14100.0	14159.6
12.5°	11964.9	11883.5	11881.8	11999.3	11983.3
15°	9063.5	8954.4	9014.8	8985.4	8969.5
17.5°	6094.9	6052.9	6133.5	6109.2	6004.3
20°	4384.4	4395.3	4548.9	4471.7	4378.6
22.5°	3199.4	3238.8	3420.9	3222.0	3149.0
25°	2130.1	2210.7	2402.0	2154.5	2086.5
27.5°	1310.1	1347.1	1540.9	1293.3	1256.4
30°	814.9	796.5	888.0	762.1	710.0
32.5°	534.6	511.1	540.5	485.1	443.1
35°	357.5	365.1	342.4	339.9	287.0
37.5°	223.3	256.8	226.6	241.7	184.6
40°	144.4	186.3	160.3	177.1	136.0
42.5°	118.3	143.5	131.8	140.2	120.9
45°	94.0	116.7	116.7	116.7	94.8
47.5°	52.0	78.1	99.9	79.7	55.4
50°	29.4	39.4	77.2	41.1	31.1
52.5°	20.1	22.7	52.9	23.5	21.0
55°	15.1	15.9	28.5	16.8	15.9
57.5°	11.8	12.6	15.1	12.6	11.8
60°	9.2	9.2	10.9	10.1	9.2
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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