

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: P755363

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755363
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: LD4D90BD010-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

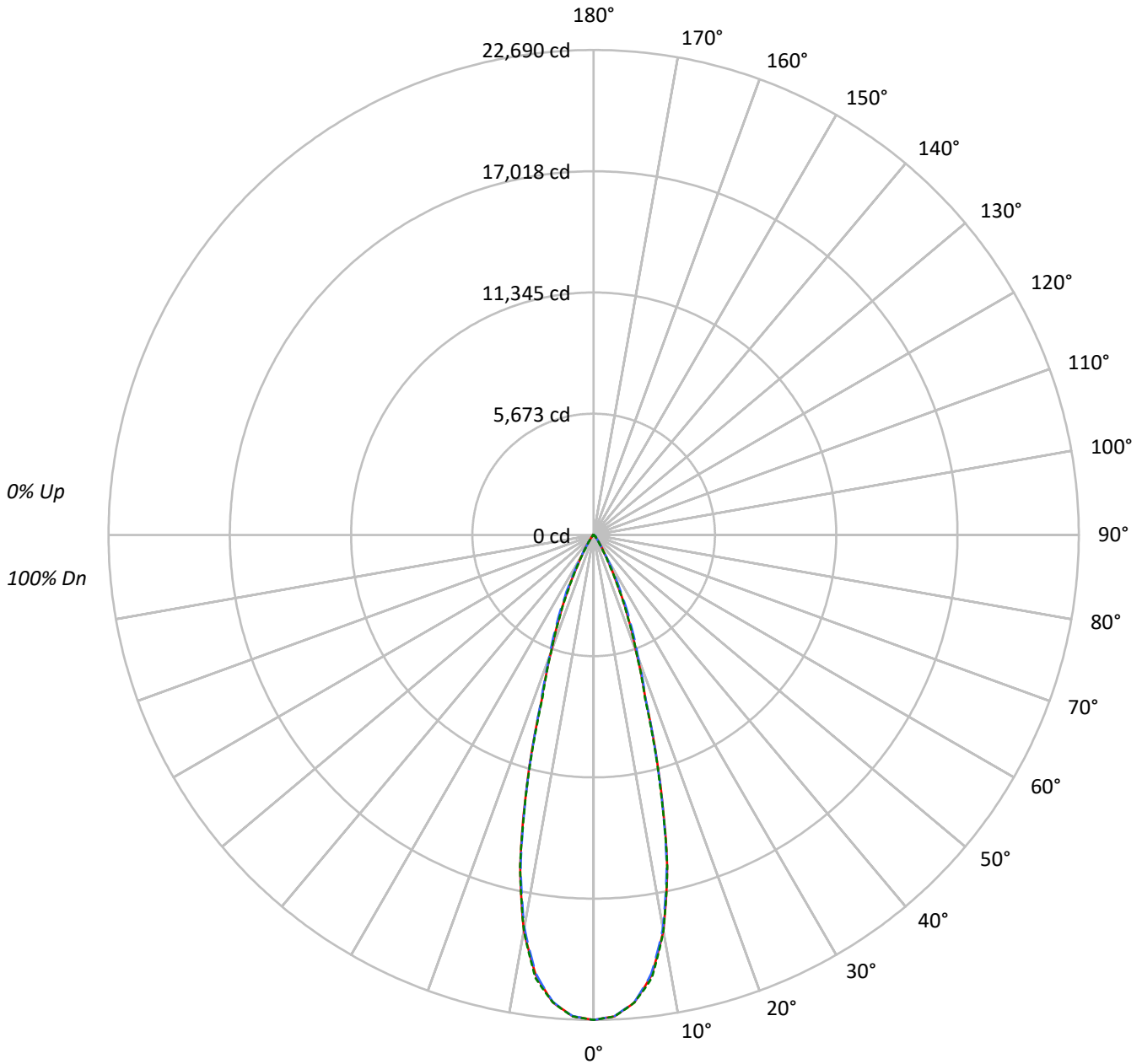
Lumens per Lamp: N/A
Luminaire Lumens: 7056.6 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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	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°	1736800	1736800	1736800
5°	1686937	1684970	1687022
10°	1461145	1450839	1460803
15°	953324	948205	943434
20°	474040	491830	473405
25°	238792	269272	233902
30°	95606	104170	83303
35°	44348	42469	35601
40°	19145	21263	18036
45°	13509	16757	13629
50°	4644	12206	4906
55°	2682	5058	2829
60°	1883	2220	1883
65°	1213	1213	1213
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16757 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1995.3	28.3
10°-20°	3213.4	45.5
20°-30°	1388.6	19.7
30°-40°	316.5	4.5
40°-50°	108.7	1.5
50°-60°	26.6	0.4
60°-70°	6.9	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°	6597.3	93.5
0°-40°	6913.8	98.0
0°-60°	7049.0	99.9
0°-90°	7056.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7056.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22690	22690	22690	22690	22690	
5°	21955	21934	21930	21975	21956	1997
15°	12030	11886	11966	11927	11906	3221
25°	2827	2934	3188	2860	2770	1353
35°	475	485	454	451	381	322
45°	125	155	155	155	126	89
55°	20	21	38	22	21	20
65°	7	7	7	7	7	7
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°	22690.4	22690.4	22690.4	22690.4	22690.4
2.5°	22540.0	22524.4	22533.3	22544.4	22548.9
5°	21955.1	21934.0	21929.5	21975.2	21956.2
7.5°	20775.4	20745.3	20699.6	20803.2	20900.2
10°	18799.1	18765.7	18666.5	18715.6	18794.7
12.5°	15881.5	15773.4	15771.2	15927.2	15906.0
15°	12030.3	11885.5	11965.7	11926.7	11905.5
17.5°	8090.0	8034.3	8141.3	8109.0	7969.7
20°	5819.6	5834.1	6038.0	5935.5	5811.8
22.5°	4246.6	4299.0	4540.8	4276.7	4179.8
25°	2827.4	2934.3	3188.3	2859.7	2769.5
27.5°	1739.0	1788.0	2045.3	1716.7	1667.7
30°	1081.7	1057.2	1178.6	1011.5	942.5
32.5°	709.6	678.4	717.4	643.9	588.2
35°	474.6	484.6	454.5	451.2	381.0
37.5°	296.3	340.9	300.8	320.8	245.1
40°	191.6	247.3	212.8	235.1	180.5
42.5°	157.1	190.5	174.9	186.0	160.4
45°	124.8	154.8	154.8	154.8	125.9
47.5°	69.1	103.6	132.6	105.8	73.5
50°	39.0	52.4	102.5	54.6	41.2
52.5°	26.7	30.1	70.2	31.2	27.9
55°	20.1	21.2	37.9	22.3	21.2
57.5°	15.6	16.7	20.1	16.7	15.6
60°	12.3	12.3	14.5	13.4	12.3
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.3	4.5	4.5	4.5	4.5
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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