

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: P756129

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756129
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: LD4D95BD010-EU4DR3070959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6336.9 lumens
Efficiency: N/A
Efficacy: 63.9 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

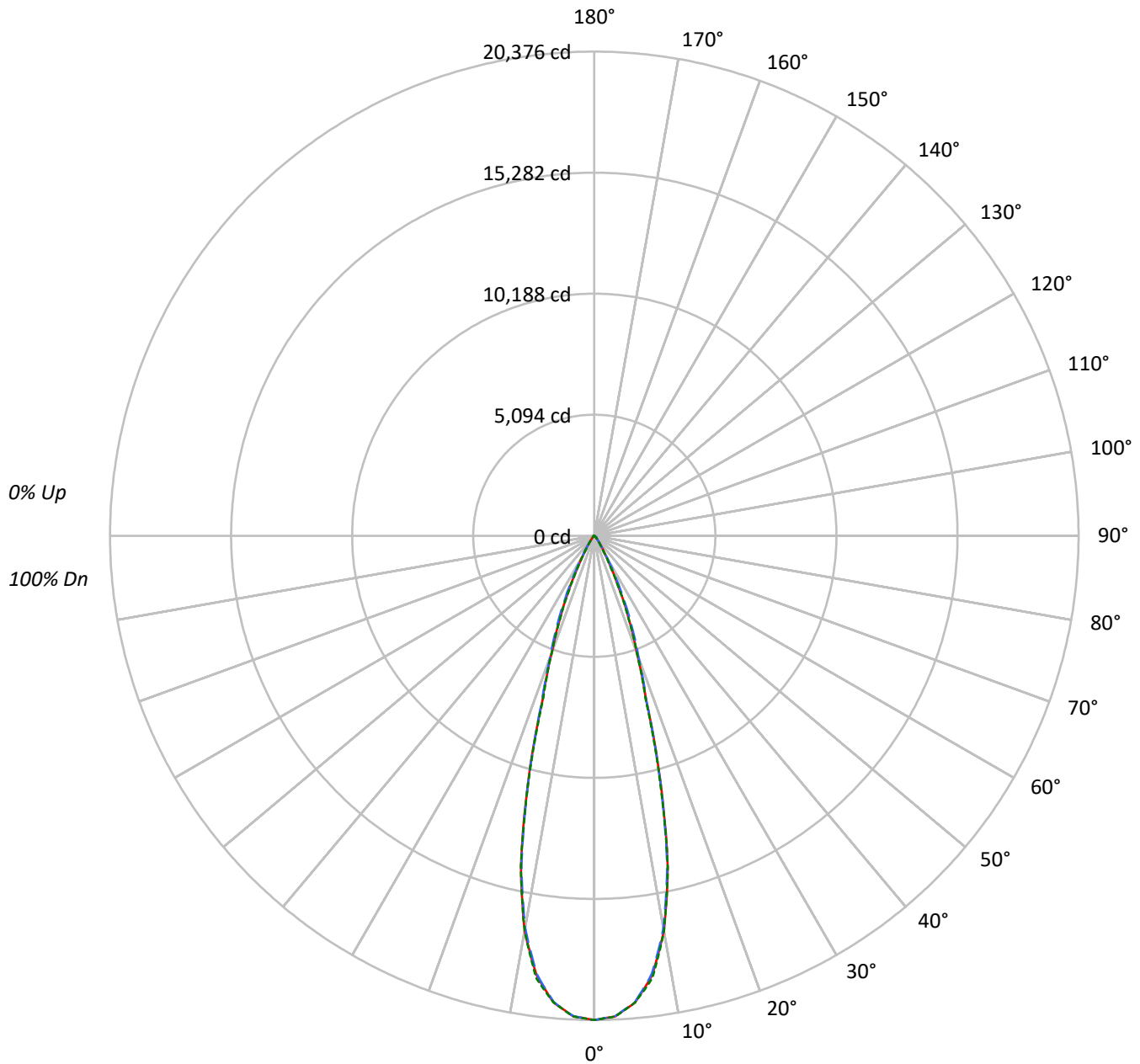
Input Watts (W): 99.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1559656	1559656	1559656
5°	1514879	1513112	1514956
10°	1312117	1302867	1311806
15°	856092	851496	847209
20°	425696	441670	425126
25°	214435	241807	210043
30°	85857	93546	74800
35°	39825	38143	31967
40°	17196	19095	16197
45°	12124	15057	12232
50°	4168	10955	4406
55°	2402	4537	2536
60°	1684	1990	1684
65°	1087	1087	1087
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: 15057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1791.8	28.3
10°-20°	2885.7	45.5
20°-30°	1247.0	19.7
30°-40°	284.2	4.5
40°-50°	97.6	1.5
50°-60°	23.8	0.4
60°-70°	6.2	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°	5924.4	93.5
0°-40°	6208.6	98.0
0°-60°	6330.0	99.9
0°-90°	6336.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6336.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20376	20376	20376	20376	20376	
5°	19716	19697	19693	19734	19717	1793
15°	10803	10673	10745	10710	10691	2893
25°	2539	2635	2863	2568	2487	1215
35°	426	435	408	405	342	289
45°	112	139	139	139	113	80
55°	18	19	34	20	19	18
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20376.1	20376.1	20376.1	20376.1	20376.1
2.5°	20241.0	20227.0	20235.0	20245.0	20249.0
5°	19715.8	19696.8	19692.8	19733.8	19716.8
7.5°	18656.4	18629.4	18588.4	18681.4	18768.4
10°	16881.7	16851.7	16762.7	16806.7	16877.7
12.5°	14261.7	14164.6	14162.6	14302.7	14283.7
15°	10803.3	10673.2	10745.3	10710.2	10691.2
17.5°	7264.9	7214.9	7310.9	7281.9	7156.8
20°	5226.1	5239.1	5422.2	5330.1	5219.1
22.5°	3813.5	3860.5	4077.6	3840.5	3753.5
25°	2539.0	2635.0	2863.1	2568.0	2487.0
27.5°	1561.6	1605.6	1836.7	1541.6	1497.6
30°	971.4	949.4	1058.4	908.4	846.3
32.5°	637.3	609.2	644.3	578.2	528.2
35°	426.2	435.2	408.2	405.2	342.1
37.5°	266.1	306.1	270.1	288.1	220.1
40°	172.1	222.1	191.1	211.1	162.1
42.5°	141.1	171.1	157.1	167.1	144.1
45°	112.0	139.1	139.1	139.1	113.0
47.5°	62.0	93.0	119.0	95.0	66.0
50°	35.0	47.0	92.0	49.0	37.0
52.5°	24.0	27.0	63.0	28.0	25.0
55°	18.0	19.0	34.0	20.0	19.0
57.5°	14.0	15.0	18.0	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)