Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P745031

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBCSSQMW

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745031
	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:	LD4D25D010-EU4DR3020359024-4LBCSSQMW
Description:	4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1854.1 lumens
Efficiency:	N/A
Efficacy:	73.9 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):	25.1
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

Downlight

TEST NUMBER: P745031
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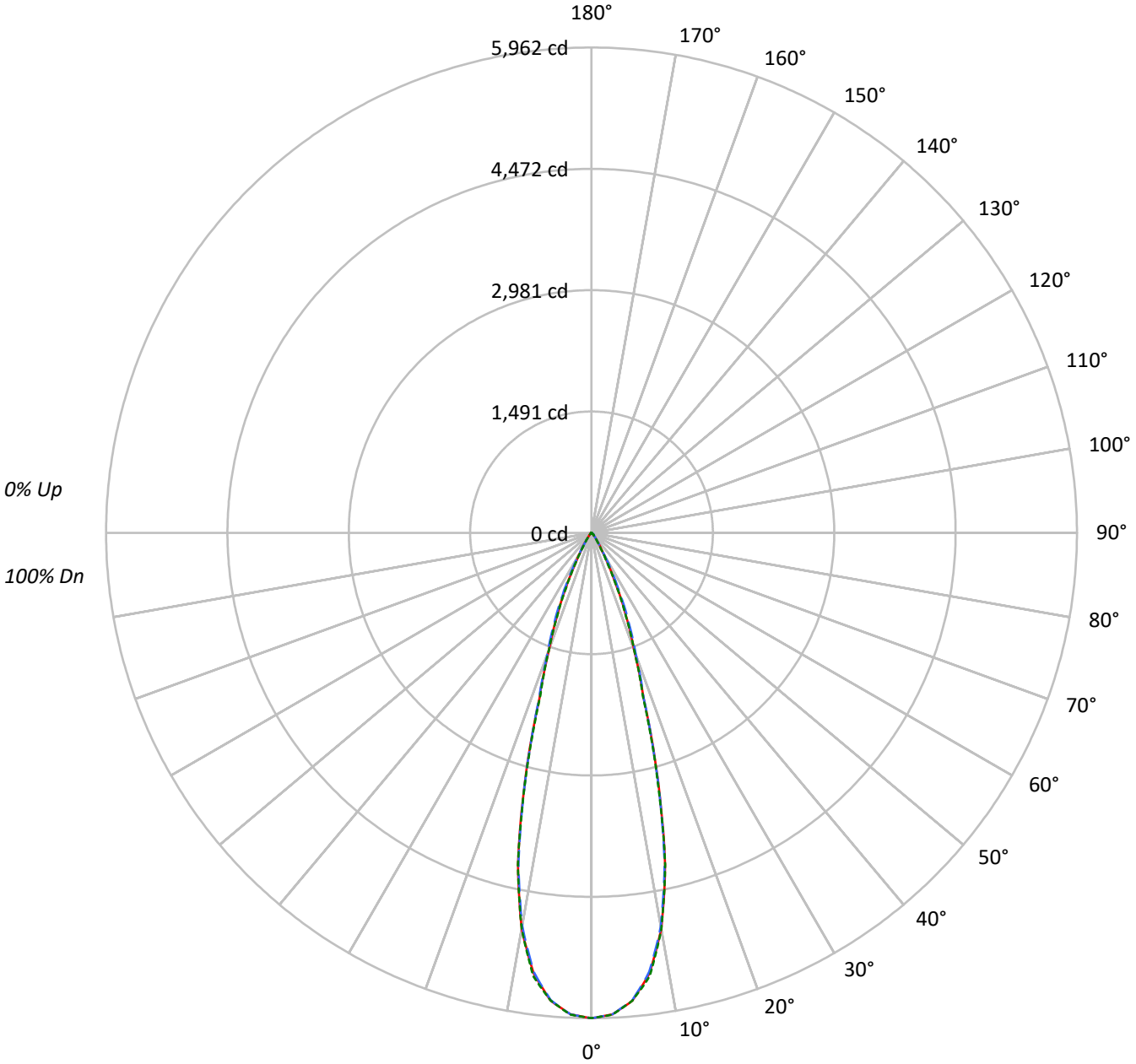
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	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°	456336	456336	456336
5°	443235	442720	443258
10°	383911	381206	383825
15°	250481	249142	247882
20°	124554	129221	124383
25°	62743	70749	61450
30°	25119	27373	21884
35°	11652	11157	9354
40°	5036	5586	4736
45°	3551	4406	3583
50°	1227	3203	1286
55°	707	1334	747
60°	490	582	490
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 4406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.3	28.3
10°-20°	844.3	45.5
20°-30°	364.9	19.7
30°-40°	83.2	4.5
40°-50°	28.6	1.5
50°-60°	7.0	0.4
60°-70°	1.8	0.1
70°-80°	0.2	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°	1733.4	93.5
0°-40°	1816.6	98.0
0°-60°	1852.1	99.9
0°-90°	1854.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1854.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5962	5962	5962	5962	5962	
5°	5769	5763	5762	5774	5769	525
15°	3161	3123	3144	3134	3128	846
25°	743	771	838	751	728	356
35°	125	127	119	118	100	85
45°	33	41	41	41	33	23
55°	5	6	10	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	*5961.8*	*5961.8*	*5961.8*	*5961.8*	*5961.8*
2.5°	*5922.3*	5918.2	5920.6	5923.5	5924.7
5°	*5768.6*	5763.1	5761.9	5773.9	5768.9
7.5°	*5458.7*	5450.8	5438.8	5466.0	5491.4
10°	*4939.4*	4930.6	4904.6	4917.5	4938.3
12.5°	*4172.8*	4144.4	4143.9	4184.8	4179.3
15°	*3160.9*	3122.9	3144.0	3133.7	3128.1
17.5°	*2125.6*	2111.0	2139.1	2130.6	2094.0
20°	*1529.1*	1532.9	1586.4	1559.5	1527.0
22.5°	*1115.8*	1129.6	1193.1	1123.7	1098.2
25°	*742.9*	771.0	837.7	751.4	727.6
27.5°	*456.9*	469.8	537.4	451.1	438.2
30°	*284.2*	277.8	309.7	265.8	247.6
32.5°	*186.4*	178.2	188.5	169.2	154.5
35°	*124.7*	127.3	119.4	118.5	100.1
37.5°	*77.9*	89.6	79.0	84.3	64.4
40°	*50.4*	65.0	55.9	61.8	47.4
42.5°	*41.3*	50.1	46.0	48.9	42.2
45°	*32.8*	40.7	40.7	40.7	33.1
47.5°	*18.2*	27.2	34.8	27.8	19.3
50°	*10.3*	13.8	26.9	14.3	10.8
52.5°	*7.0*	7.9	18.4	8.2	7.3
55°	*5.3*	5.6	10.0	5.8	5.6
57.5°	*4.1*	4.4	5.3	4.4	4.1
60°	*3.2*	3.2	3.8	3.5	3.2
62.5°	*2.3*	2.3	2.6	2.3	2.3
65°	*1.8*	1.8	1.8	1.8	1.8
67.5°	*0.9*	1.1	1.1	1.1	1.1
70°	*0.9*	0.6	0.6	0.6	0.9
72.5°	*0.6*	0.3	0.3	0.3	0.3
75°	*0.0*	0.0	0.3	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

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0°-180° 45°-225° 90°-270°

(END OF REPORT)