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: P745015

Luminaire Tested: LD4D25D010-EU4DR2520359040-4LBSQW1MW

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745015
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/30/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR2520359040-4LBSQW1MW
Description:	4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 25° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1963.0 lumens
Efficiency:	N/A
Efficacy:	78.2 lumens/watt
Spacing Criteria (0/90/45):	0.42 / 0.42 / 0.45
Luminous Opening:	Circular (Dia: 0.35' 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

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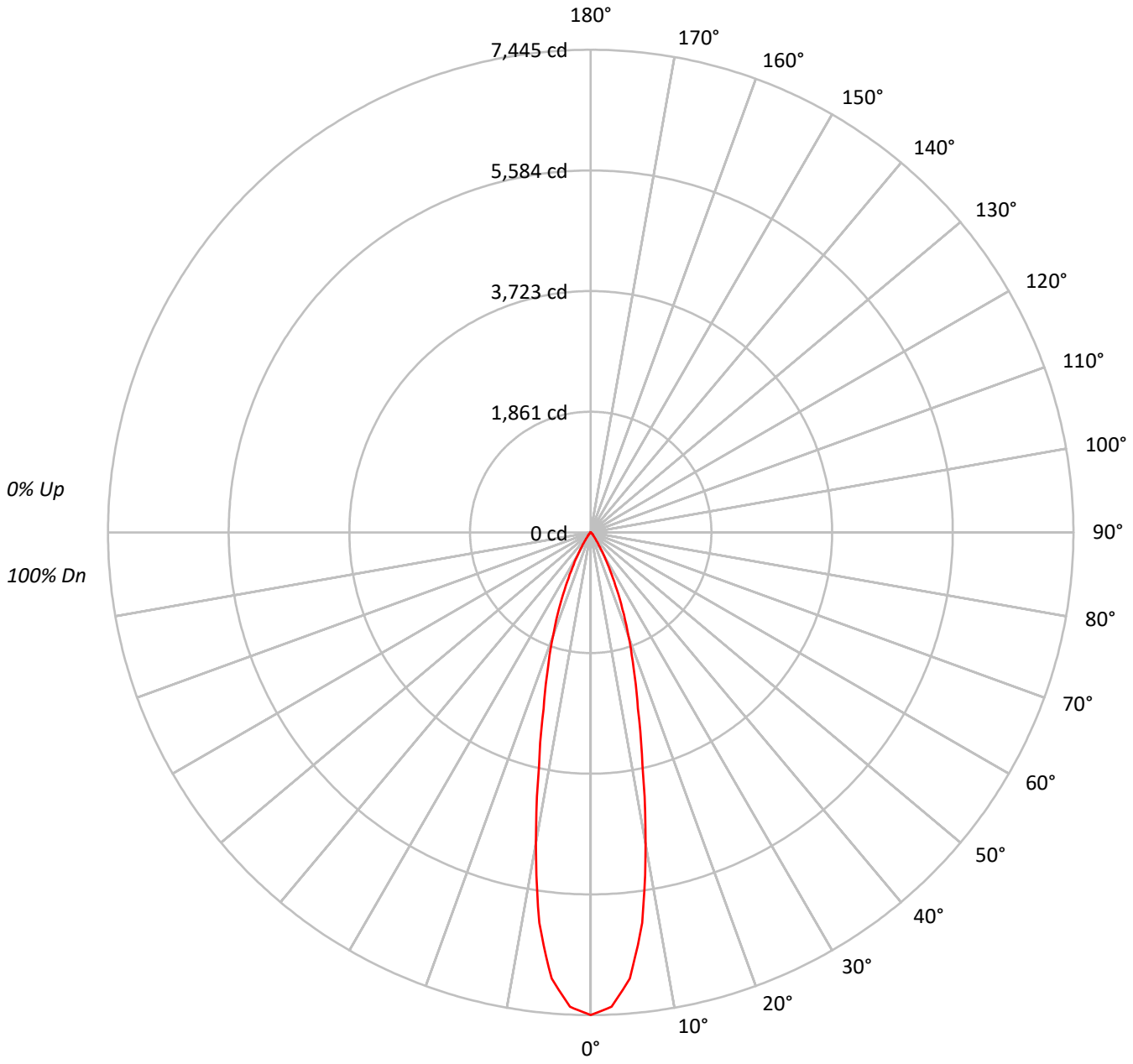
Luminous Intensity Polar Plot



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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	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79
7	93	87	82	79	92	86	82	79	85	81	78	84	80	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°
0°	813479
5°	757656
10°	540453
15°	318306
20°	198059
25°	108693
30°	49708
35°	18820
40°	8529
45°	5130
50°	2125
55°	1372
60°	961
65°	646
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.7	30.2
10°-20°	804.1	41.0
20°-30°	425.5	21.7
30°-40°	105.0	5.4
40°-50°	25.6	1.3
50°-60°	6.7	0.3
60°-70°	2.2	0.1
70°-80°	0.0	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°	1823.3	92.9
0°-40°	1928.4	98.2
0°-60°	1960.7	99.9
0°-90°	1963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7445	
5°	6908	594
15°	2814	804
25°	902	426
35°	141	105
45°	33	26
55°	7	7
65°	2	2
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	7445.3
2.5°	7323.0
5°	6908.0
7.5°	6074.3
10°	4871.3
12.5°	3682.5
15°	2814.0
17.5°	2193.1
20°	1703.4
22.5°	1277.5
25°	901.6
27.5°	604.6
30°	394.0
32.5°	239.7
35°	141.1
37.5°	86.4
40°	59.8
42.5°	45.7
45°	33.2
47.5°	20.1
50°	12.5
52.5°	9.1
55°	7.2
57.5°	5.6
60°	4.4
62.5°	3.4
65°	2.5
67.5°	0.9
70°	0.3
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)