

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: P780189

Luminaire Tested: LER4D20D010-EC4DR3020359040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780189
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: LER4D20D010-EC4DR3020359040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2056.3 lumens
Efficiency: N/A
Efficacy: 89.0 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): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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



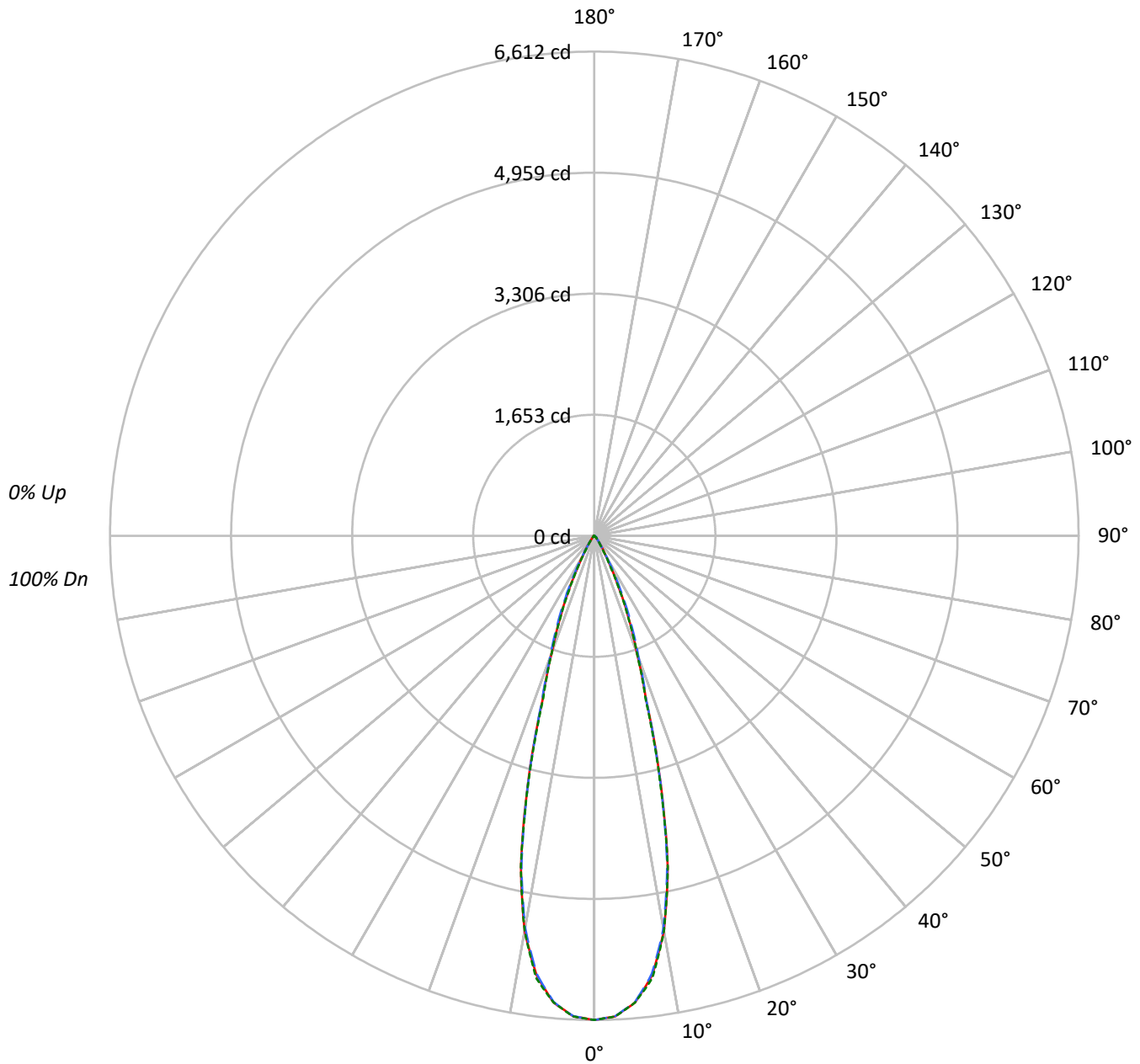
Downlight



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	506105	506105	506105
5°	491580	491004	491603
10°	425781	422781	425680
15°	277804	276314	274920
20°	138141	143321	137954
25°	69584	78468	68156
30°	27859	30360	24270
35°	12923	12381	10372
40°	5586	6195	5256
45°	3940	4882	3973
50°	1346	3561	1429
55°	774	1481	827
60°	551	643	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4882 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.4	28.3
10°-20°	936.4	45.5
20°-30°	404.6	19.7
30°-40°	92.2	4.5
40°-50°	31.7	1.5
50°-60°	7.7	0.4
60°-70°	2.0	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°	1922.5	93.5
0°-40°	2014.7	98.0
0°-60°	2054.1	99.9
0°-90°	2056.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2056.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6612	6612	6612	6612	6612	
5°	6398	6392	6390	6404	6398	582
15°	3506	3464	3487	3476	3469	939
25°	824	855	929	833	807	394
35°	138	141	132	132	111	94
45°	36	45	45	45	37	26
55°	6	6	11	6	6	6
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°	6612.0	6612.0	6612.0	6612.0	6612.0
2.5°	6568.2	6563.7	6566.2	6569.5	6570.8
5°	6397.8	6391.6	6390.3	6403.6	6398.1
7.5°	6054.0	6045.3	6031.9	6062.1	6090.4
10°	5478.1	5468.4	5439.5	5453.7	5476.8
12.5°	4627.9	4596.4	4595.8	4641.2	4635.1
15°	3505.7	3463.5	3486.9	3475.5	3469.3
17.5°	2357.5	2341.2	2372.4	2363.0	2322.4
20°	1695.9	1700.1	1759.5	1729.6	1693.6
22.5°	1237.5	1252.8	1323.2	1246.2	1218.0
25°	823.9	855.1	929.1	833.3	807.0
27.5°	506.7	521.0	596.0	500.2	486.0
30°	315.2	308.1	343.5	294.8	274.6
32.5°	206.8	197.7	209.1	187.6	171.4
35°	138.3	141.2	132.5	131.5	111.0
37.5°	86.3	99.3	87.7	93.5	71.4
40°	55.9	72.1	62.0	68.5	52.6
42.5°	45.8	55.5	51.0	54.2	46.8
45°	36.4	45.1	45.1	45.1	36.7
47.5°	20.1	30.2	38.6	30.8	21.4
50°	11.3	15.2	29.9	15.9	12.0
52.5°	7.8	8.8	20.5	9.1	8.1
55°	5.8	6.2	11.1	6.5	6.2
57.5°	4.5	4.9	5.8	4.9	4.5
60°	3.6	3.6	4.2	3.9	3.6
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
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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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)