

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: P778625

Luminaire Tested: LER4D02D010-EC4DR300210IC9035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778625
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: LER4D02D010-EC4DR300210IC9035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 378.2 lumens
Efficiency: N/A
Efficacy: 74.2 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): 5.1
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



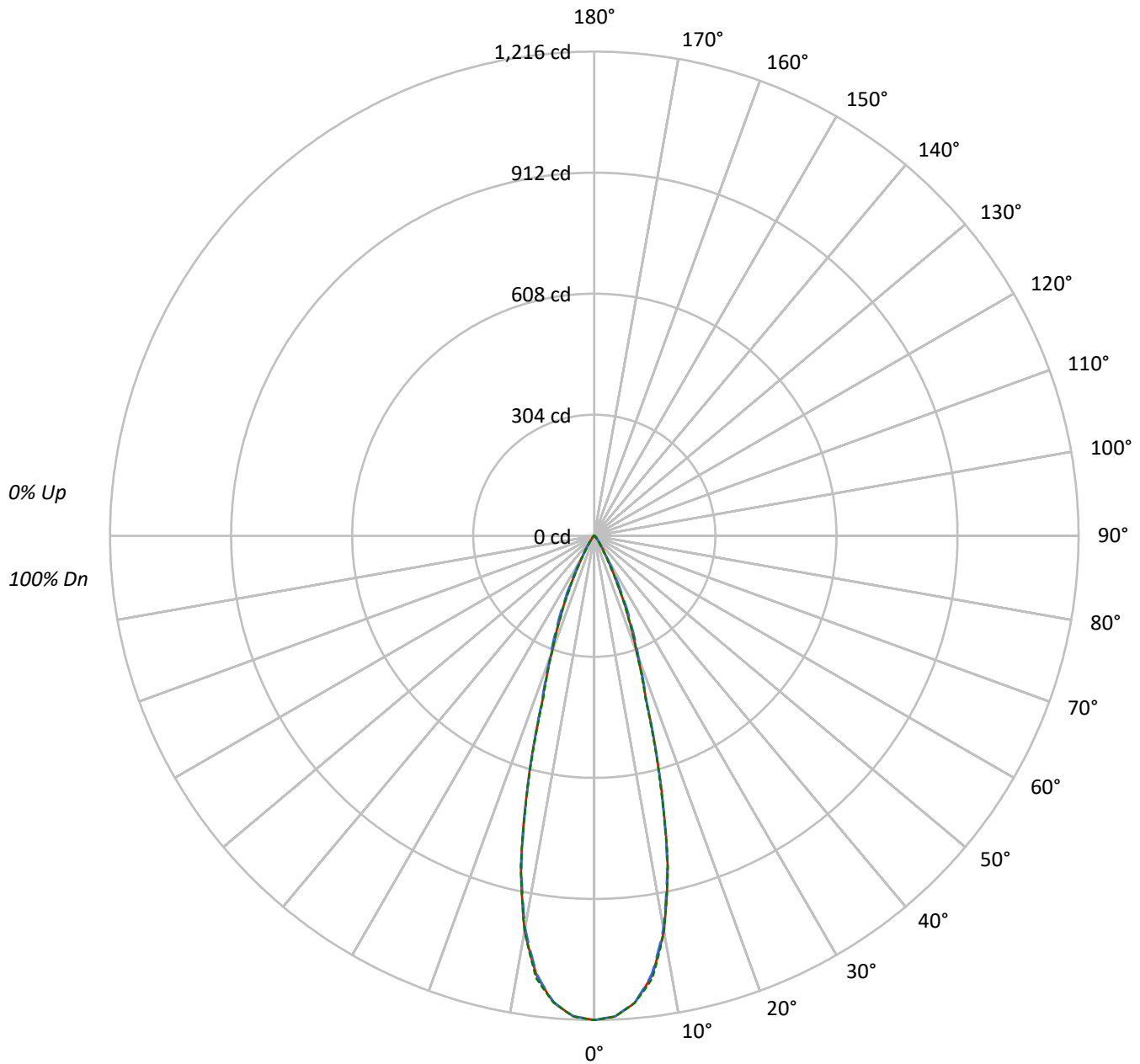
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
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	87	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°	93084	93084	93084
5°	90413	90305	90413
10°	78307	77755	78292
15°	51088	50819	50557
20°	25406	26359	25373
25°	12795	14434	12542
30°	5126	5577	4463
35°	2373	2280	1906
40°	1029	1139	969
45°	725	898	736
50°	250	655	262
55°	147	267	147
60°	92	122	92
65°	54	54	54
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 898 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	28.3
10°-20°	172.2	45.5
20°-30°	74.4	19.7
30°-40°	17.0	4.5
40°-50°	5.8	1.5
50°-60°	1.4	0.4
60°-70°	0.3	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°	353.6	93.5
0°-40°	370.5	98.0
0°-60°	377.8	99.9
0°-90°	378.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	378.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1177	1176	1175	1178	1177	107
15°	645	637	641	639	638	173
25°	152	157	171	153	148	73
35°	25	26	24	24	20	17
45°	7	8	8	8	7	5
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
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°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1208.0	1207.2	1207.7	1208.2	1208.5
5°	1176.7	1175.5	1175.3	1177.8	1176.7
7.5°	1113.4	1111.8	1109.3	1114.9	1120.1
10°	1007.5	1005.7	1000.4	1003.1	1007.3
12.5°	851.2	845.3	845.2	853.6	852.4
15°	644.7	637.0	641.3	639.2	638.0
17.5°	433.6	430.6	436.3	434.6	427.1
20°	311.9	312.7	323.6	318.1	311.5
22.5°	227.6	230.4	243.3	229.2	224.0
25°	151.5	157.3	170.9	153.3	148.5
27.5°	93.2	95.9	109.6	92.0	89.4
30°	58.0	56.7	63.1	54.2	50.5
32.5°	38.0	36.4	38.4	34.5	31.5
35°	25.4	26.0	24.4	24.2	20.4
37.5°	15.9	18.3	16.1	17.2	13.1
40°	10.3	13.2	11.4	12.6	9.7
42.5°	8.4	10.2	9.4	10.0	8.6
45°	6.7	8.3	8.3	8.3	6.8
47.5°	3.7	5.6	7.1	5.7	4.0
50°	2.1	2.8	5.5	2.9	2.2
52.5°	1.4	1.6	3.8	1.7	1.5
55°	1.1	1.1	2.0	1.2	1.1
57.5°	0.9	0.9	1.1	0.9	0.9
60°	0.6	0.6	0.8	0.7	0.6
62.5°	0.5	0.5	0.5	0.5	0.5
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)