

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: P756411

Luminaire Tested: LD4D95BD010-EU4DR4570959050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D95BD010-EU4DR4570959050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9469.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 99.2
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

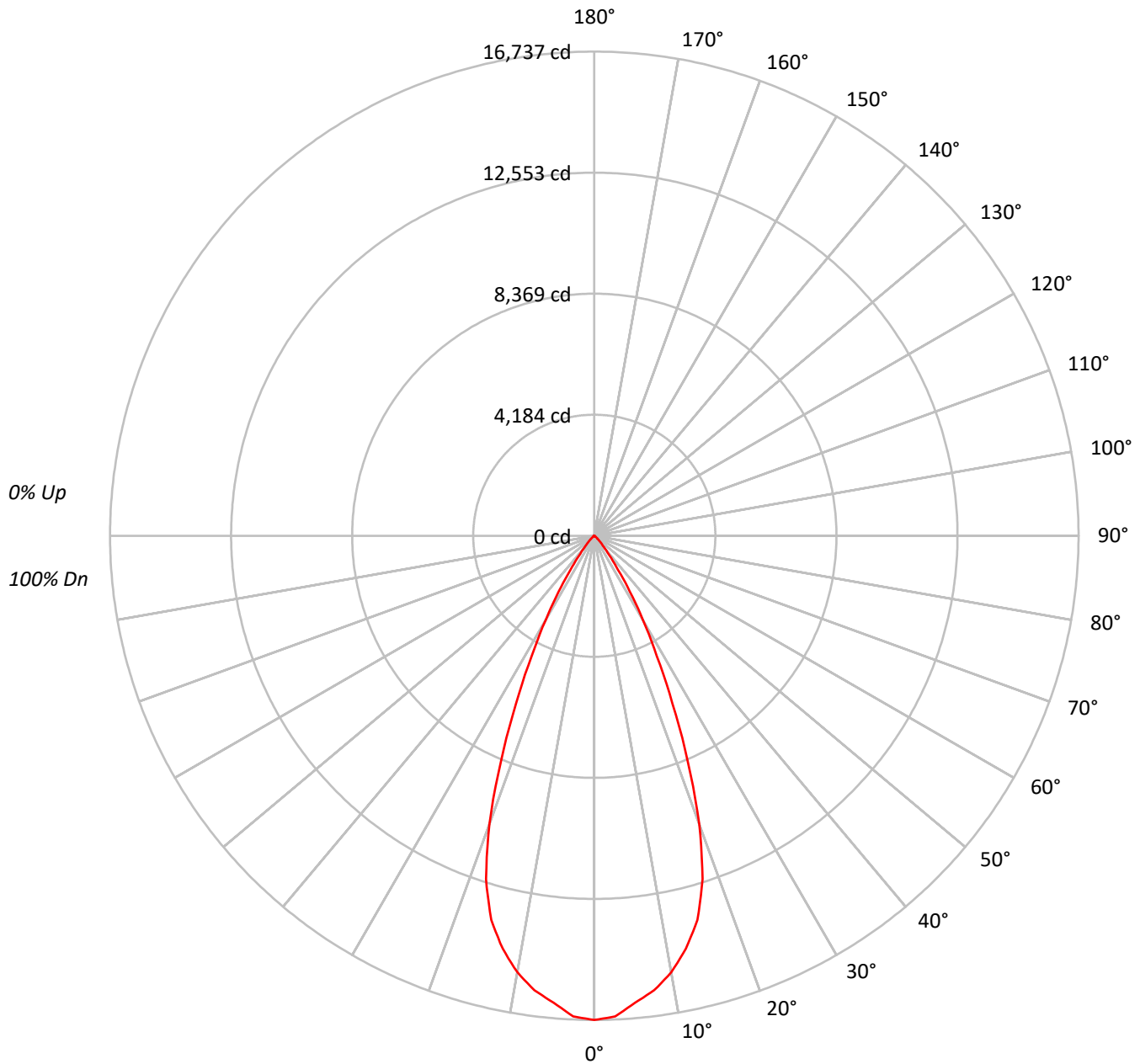


Downlight

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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					10
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	114	112	110	108		112	110	108	106		106	104	103		102	101	100		98	98	97
2	109	105	102	99		107	103	100	98		100	98	95		97	95	93		95	93	91
3	105	99	95	91		103	98	94	91		95	92	89		93	90	88		91	89	87
4	100	94	89	85		99	93	88	85		91	87	84		89	86	83		87	84	82
5	96	89	84	80		95	88	83	80		86	82	79		85	81	79		83	80	78
6	92	85	80	76		91	84	79	76		83	78	75		81	77	75		80	77	74
7	89	81	75	72		87	80	75	72		79	74	71		78	74	71		77	73	71
8	85	77	72	68		84	76	71	68		75	71	68		74	70	67		73	70	67
9	82	73	68	65		81	73	68	65		72	68	65		71	67	64		71	67	64
10	79	70	65	62		78	70	65	62		69	65	62		68	64	61		68	64	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1828719
5°	1776654
10°	1699786
15°	1555660
20°	1234178
25°	770509
30°	424679
35°	190697
40°	75109
45°	35400
50°	16777
55°	8782
60°	4305
65°	1008
70°	415
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35400 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1522.0	16.1
10°-20°	3745.9	39.6
20°-30°	2966.4	31.3
30°-40°	987.8	10.4
40°-50°	196.0	2.1
50°-60°	44.5	0.5
60°-70°	6.4	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°	8234.3	87.0
0°-40°	9222.2	97.4
0°-60°	9462.7	99.9
0°-90°	9469.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9469.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16737	
5°	16199	###
15°	13753	3746
25°	6391	2966
35°	1430	988
45°	229	196
55°	46	45
65°	4	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16737.2
2.5°	16628.0
5°	16198.8
7.5°	15844.7
10°	15320.8
12.5°	14623.0
15°	13752.9
17.5°	12444.3
20°	10614.5
22.5°	8434.4
25°	6391.3
27.5°	4680.0
30°	3366.1
32.5°	2289.3
35°	1429.7
37.5°	847.8
40°	526.6
42.5°	346.2
45°	229.1
47.5°	147.4
50°	98.7
52.5°	65.8
55°	46.1
57.5°	30.3
60°	19.7
62.5°	10.5
65°	3.9
67.5°	1.3
70°	1.3
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)