

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: P785023

Luminaire Tested: LER4DD45BD010-EC4DR6040509024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6040509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3206.8 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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

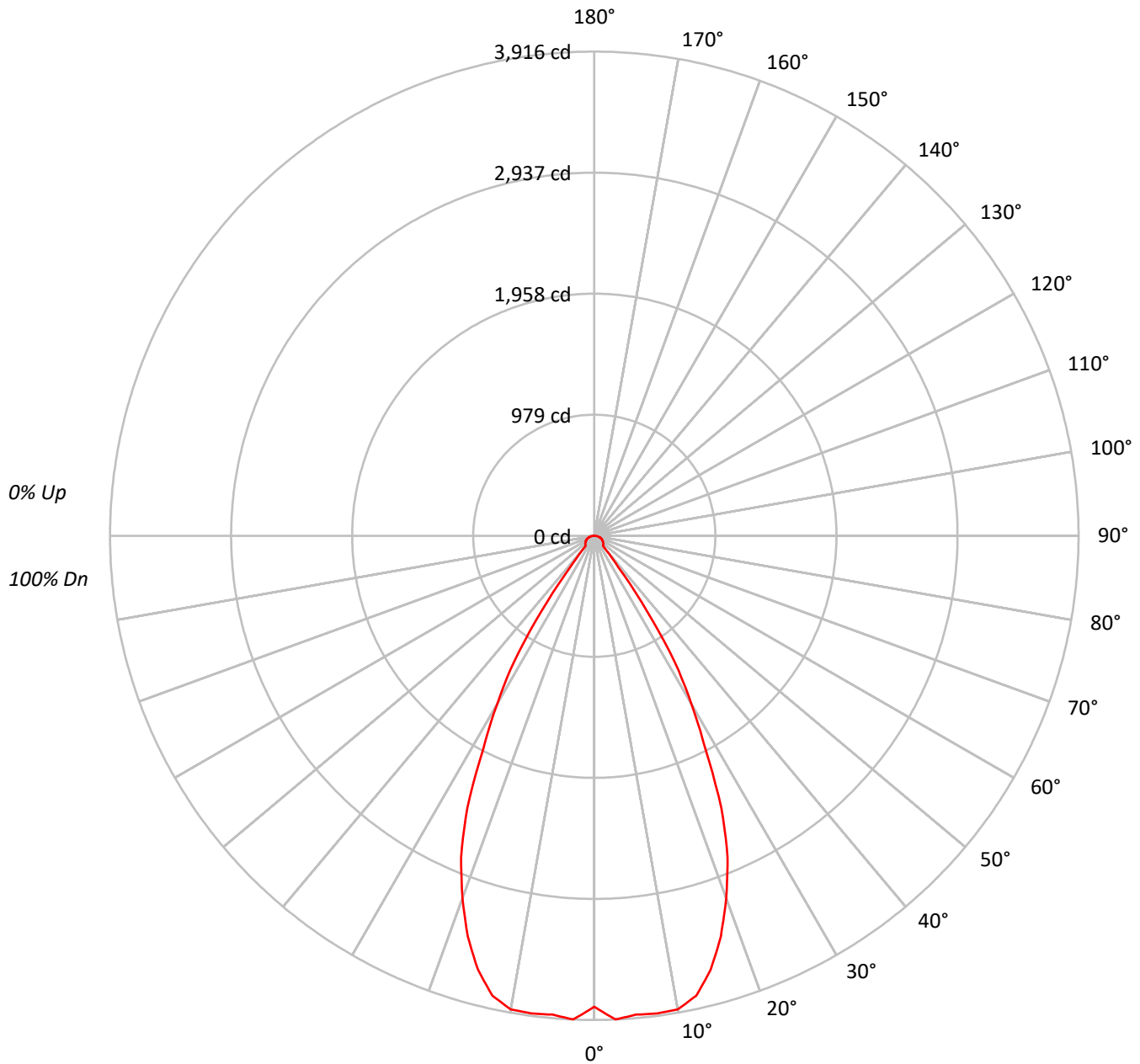


Downlight

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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	416120
5°	426352
10°	431503
15°	411060
20°	362434
25°	293144
30°	198291
35°	99357
40°	16117
45°	15776
50°	16097
55°	16325
60°	16782
65°	17167
70°	17570
75°	17773
80°	17177
85°	14291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 17773 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	11.6
10°-20°	1005.2	31.3
20°-30°	1081.5	33.7
30°-40°	470.1	14.7
40°-50°	79.0	2.5
50°-60°	76.8	2.4
60°-70°	65.7	2.0
70°-80°	43.9	1.4
80°-90°	13.2	0.4
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°	2458.2	76.7
0°-40°	2928.3	91.3
0°-60°	3084.0	96.2
0°-90°	3206.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3206.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3808	
5°	3887	372
15°	3634	1005
25°	2432	1082
35°	745	470
45°	102	79
55°	86	77
65°	66	66
75°	42	44
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3808.5
2.5°	3915.6
5°	3887.3
7.5°	3896.2
10°	3889.3
12.5°	3809.0
15°	3634.0
17.5°	3399.1
20°	3117.1
22.5°	2815.2
25°	2431.6
27.5°	1944.9
30°	1571.7
32.5°	1211.3
35°	744.9
37.5°	318.7
40°	113.0
42.5°	104.1
45°	102.1
47.5°	98.6
50°	94.7
52.5°	90.2
55°	85.7
57.5°	81.3
60°	76.8
62.5°	71.9
65°	66.4
67.5°	61.0
70°	55.0
72.5°	48.6
75°	42.1
77.5°	34.7
80°	27.3
82.5°	19.3
85°	11.4
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)