

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: P780240

Luminaire Tested: LER4D20D010-EC4DR4020359050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4020359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2040.1 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



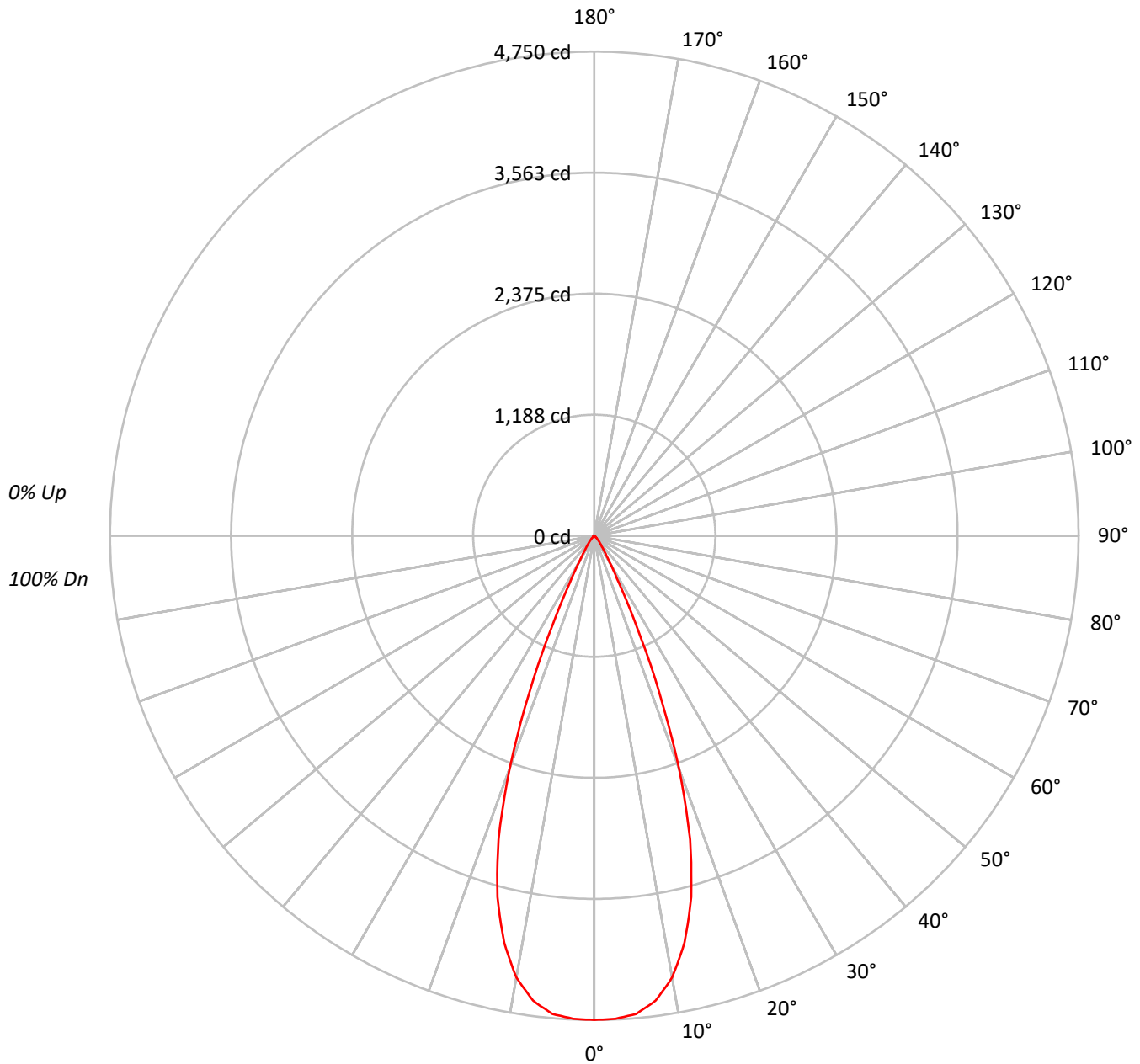
Downlight



TEST NUMBER: P780240

CATALOG NUMBER: LER4D20D010-EC4DR4020359050-4LBS1B

Luminous Intensity Polar Plot



CATALOG NUMBER: LER4D20D010-EC4DR4020359050-4LBS1B

RF	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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96	96	96			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92			
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	88	88	88			
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	84	84	84			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81			
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	77	77	77			
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74	74	74	74			
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	72	72	72			
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69	69	69	69			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67	67	67	67			

	0°
0°	518967
5°	516452
10°	488153
15°	414997
20°	282845
25°	118012
30°	37117
35°	17246
40°	9542
45°	4373
50°	2125
55°	1162
60°	612
65°	233
70°	96
75°	0
80°	0
85°	0

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.7	21.6
10°-20°	985.0	48.3
20°-30°	493.1	24.2
30°-40°	90.4	4.4
40°-50°	24.9	1.2
50°-60°	5.9	0.3
60°-70°	1.2	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°	1917.7	94.0
0°-40°	2008.1	98.4
0°-60°	2038.9	99.9
0°-90°	2040.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2040.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4750	
5°	4709	440
15°	3669	985
25°	979	493
35°	129	90
45°	28	25
55°	6	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4749.8
2.5°	4742.9
5°	4708.8
7.5°	4600.0
10°	4399.9
12.5°	4088.1
15°	3668.8
17.5°	3123.6
20°	2432.6
22.5°	1658.5
25°	978.9
27.5°	517.5
30°	294.2
32.5°	190.0
35°	129.3
37.5°	92.4
40°	66.9
42.5°	45.8
45°	28.3
47.5°	18.0
50°	12.5
52.5°	8.9
55°	6.1
57.5°	3.9
60°	2.8
62.5°	1.7
65°	0.9
67.5°	0.6
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)