

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P840280

Luminaire Tested: **LDS4C05D010 EU4059030 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C05D010 EU4059030 4LBPSSQMB
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

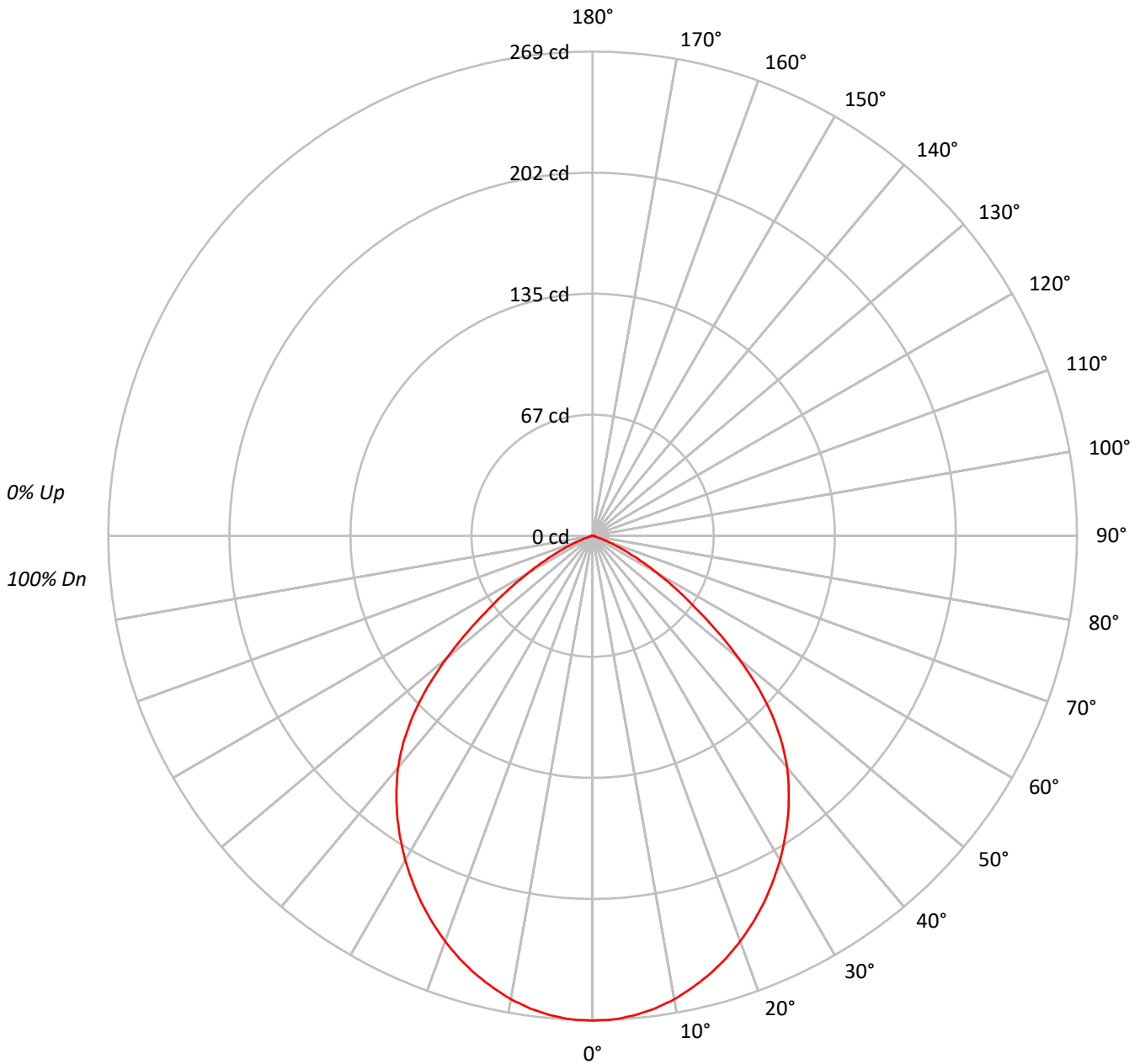
Lumens per Lamp: N/A
Luminaire Lumens: 513.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
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: 25 FT

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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		0	
RW	70	50	30	10	70	50	30	10	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	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55		
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44		
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25994
5°	25900
10°	25621
15°	25173
20°	24613
25°	23954
30°	23197
35°	22310
40°	21186
45°	19254
50°	15897
55°	11708
60°	7951
65°	4658
70°	1834
75°	410
80°	556
85°	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	4.9
10°-20°	71.0	13.8
20°-30°	103.5	20.2
30°-40°	118.2	23.0
40°-50°	107.4	20.9
50°-60°	63.4	12.4
60°-70°	21.3	4.1
70°-80°	2.2	0.4
80°-90°	0.8	0.1
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°	199.8	39.0
0°-40°	318.0	62.0
0°-60°	488.7	95.3
0°-90°	513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	269	
5°	267	25
15°	252	71
25°	225	104
35°	189	118
45°	141	107
55°	70	63
65°	20	21
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	269.4
2.5°	269.0
5°	267.4
7.5°	264.9
10°	261.5
12.5°	257.0
15°	252.0
17.5°	246.2
20°	239.7
22.5°	232.6
25°	225.0
27.5°	216.7
30°	208.2
32.5°	198.9
35°	189.4
37.5°	179.0
40°	168.2
42.5°	155.5
45°	141.1
47.5°	124.5
50°	105.9
52.5°	87.3
55°	69.6
57.5°	54.5
60°	41.2
62.5°	29.8
65°	20.4
67.5°	12.5
70°	6.5
72.5°	2.5
75°	1.1
77.5°	1.1
80°	1.0
82.5°	0.8
85°	0.8
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)