

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: P840356

Luminaire Tested: **LDS4C30D010 EU4309050 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: P840356
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: LDS4C30D010 EU4309050 4LBSSQMB
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

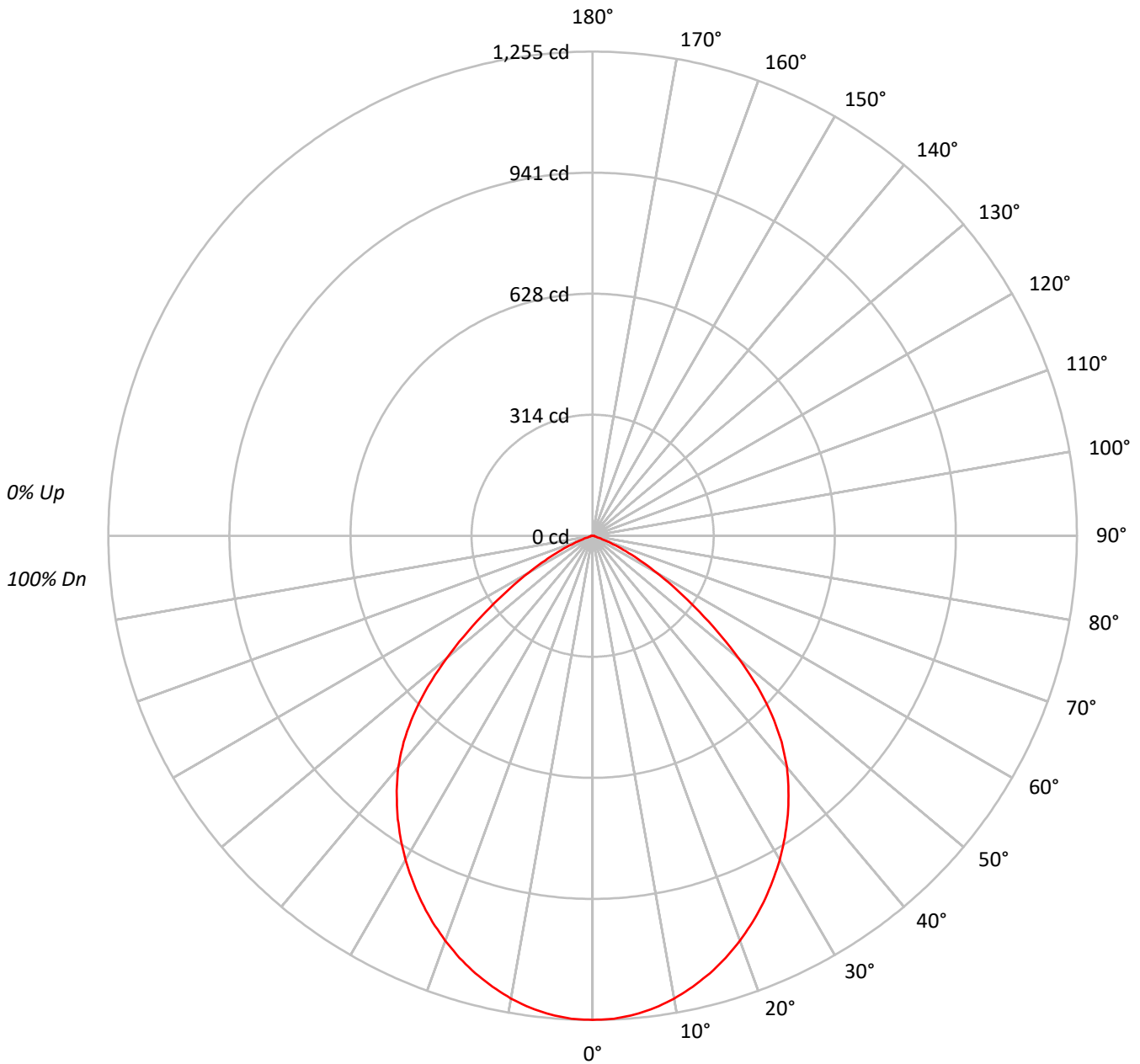
Lumens per Lamp: N/A
Luminaire Lumens: 2390.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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

TEST NUMBER: P840356

CATALOG NUMBER: LDS4C30D010 EU4309050 4LBPSSQMB

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	0
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°	121084
5°	120675
10°	119346
15°	117294
20°	114664
25°	111606
30°	108084
35°	103927
40°	98688
45°	89720
50°	74079
55°	54538
60°	37013
65°	21667
70°	8576
75°	1939
80°	2500
85°	4318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	4.9
10°-20°	330.6	13.8
20°-30°	482.3	20.2
30°-40°	550.5	23.0
40°-50°	500.5	20.9
50°-60°	295.2	12.3
60°-70°	99.0	4.1
70°-80°	10.4	0.4
80°-90°	3.6	0.2
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°	931.0	39.0
0°-40°	1481.4	62.0
0°-60°	2277.1	95.3
0°-90°	2390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1255	
5°	1246	118
15°	1174	331
25°	1048	482
35°	882	550
45°	658	500
55°	324	295
65°	95	99
75°	5	10
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1254.9
2.5°	1253.0
5°	1245.9
7.5°	1234.3
10°	1218.1
12.5°	1197.5
15°	1174.2
17.5°	1147.1
20°	1116.7
22.5°	1083.8
25°	1048.3
27.5°	1009.5
30°	970.1
32.5°	926.8
35°	882.3
37.5°	833.8
40°	783.5
42.5°	724.7
45°	657.5
47.5°	580.0
50°	493.5
52.5°	406.9
55°	324.2
57.5°	253.8
60°	191.8
62.5°	138.9
65°	94.9
67.5°	58.1
70°	30.4
72.5°	11.6
75°	5.2
77.5°	5.2
80°	4.5
82.5°	3.9
85°	3.9
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)