

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: P859210

Luminaire Tested: **LD4C60D010 EU4609035 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C60D010 EU4609035 4LBMDSWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

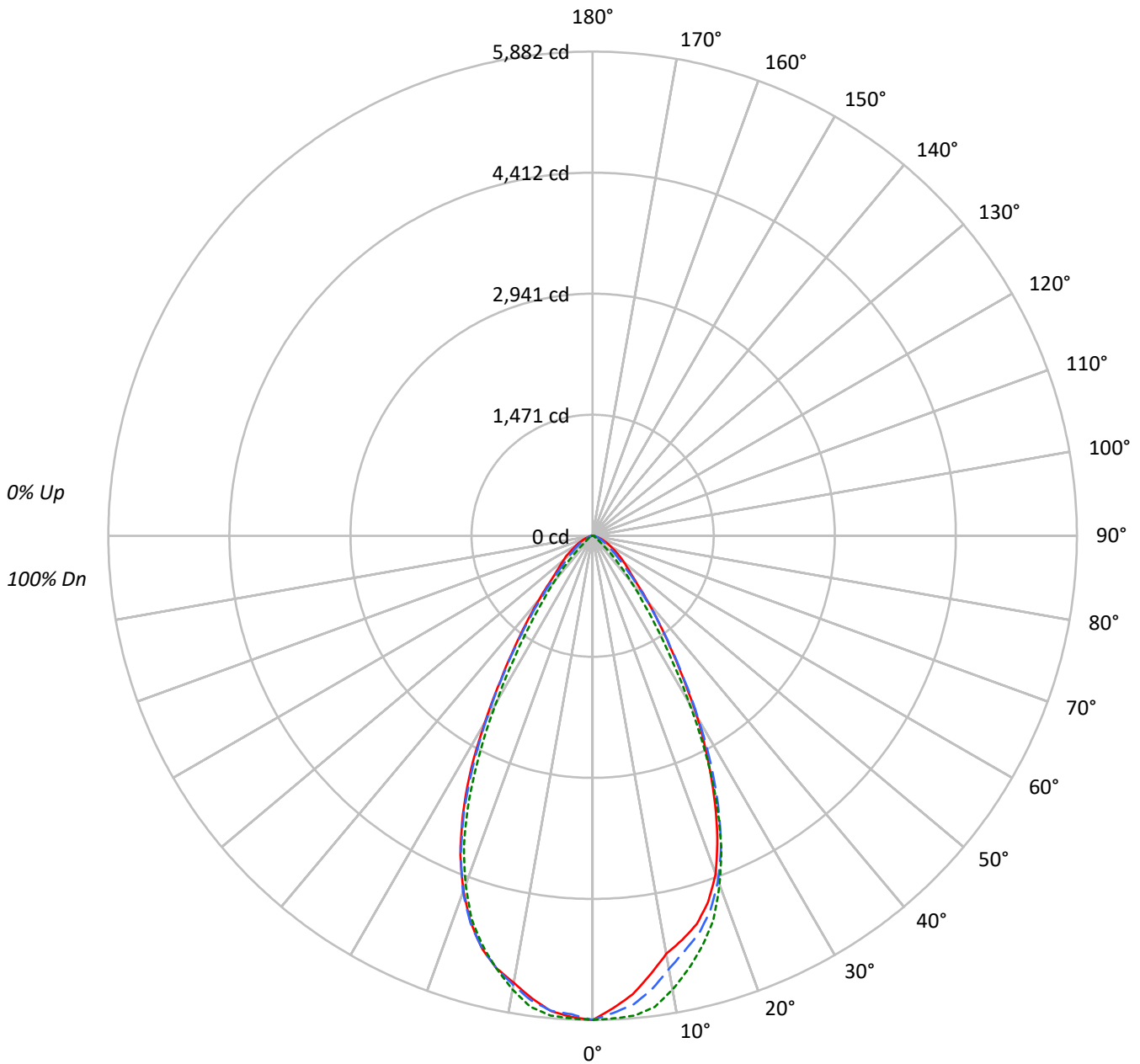
Lumens per Lamp: N/A
Luminaire Lumens: 5355.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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: 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									
RC	80									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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	722673	722673	722673
5°	689584	721512	714791
10°	643154	698119	687927
15°	621068	655727	660344
20°	571299	589105	599800
25°	473503	482124	505521
30°	360208	333142	370521
35°	243892	199604	246606
40°	166099	114379	160999
45°	115225	57613	108901
50°	93766	23432	87689
55°	75887	14586	69076
60°	60272	11155	54694
65°	47529	9244	42267
70°	35884	8154	32615
75°	25869	6456	23733
80°	19314	6438	16060
85°	12827	6343	12827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.8	10.1
10°-20°	1421.0	26.5
20°-30°	1630.4	30.4
30°-40°	990.4	18.5
40°-50°	424.5	7.9
50°-60°	203.6	3.8
60°-70°	99.0	1.8
70°-80°	36.7	0.7
80°-90°	8.4	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°	3592.2	67.1
0°-40°	4582.7	85.6
0°-60°	5210.8	97.3
0°-90°	5355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5355.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5882	5882	5882	5882	5882	
5°	5592	5714	5851	5792	5796	520
15°	4883	4997	5156	5187	5192	1360
25°	3493	3607	3557	3693	3729	1585
35°	1626	1649	1331	1608	1644	1042
45°	663	590	332	532	627	539
55°	354	264	68	236	322	320
65°	164	109	32	100	145	166
75°	54	36	14	32	50	60
85°	9	9	4	4	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5882.4	5882.4	5882.4	5882.4	5882.4	5882.4	5882.4	5882.4	5882.4
2.5°	5741.6	5805.2	5800.6	5855.1	5868.8	5855.1	5818.8	5855.1	5850.6
5°	5591.7	5664.4	5714.3	5805.2	5850.6	5841.5	5791.5	5800.6	5796.1
7.5°	5373.6	5464.5	5550.8	5687.1	5773.4	5768.8	5696.2	5682.5	5664.4
10°	5155.6	5241.9	5341.8	5482.7	5596.2	5614.4	5541.7	5523.5	5514.5
12.5°	5028.4	5096.6	5164.7	5287.3	5387.3	5423.6	5382.7	5387.3	5382.7
15°	4883.1	4951.2	4996.6	5087.5	5155.6	5205.6	5187.4	5214.7	5191.9
17.5°	4665.0	4746.8	4765.0	4833.1	4883.1	4914.9	4933.0	4960.3	4923.9
20°	4369.8	4433.4	4456.1	4483.3	4506.0	4546.9	4601.4	4628.7	4587.8
22.5°	3956.4	4079.1	4074.5	4060.9	4083.6	4097.2	4183.5	4229.0	4197.2
25°	3493.1	3620.3	3606.7	3552.1	3556.7	3583.9	3693.0	3752.0	3729.3
27.5°	3007.1	3125.2	3093.4	2988.9	2961.6	3002.5	3143.3	3211.5	3197.8
30°	2539.2	2616.4	2566.4	2380.2	2348.4	2398.4	2580.1	2648.2	2611.9
32.5°	2035.0	2094.0	2071.3	1844.2	1789.7	1839.7	2053.2	2116.8	2075.9
35°	1626.2	1680.7	1648.9	1380.9	1330.9	1385.4	1608.0	1680.7	1644.3
37.5°	1303.7	1344.5	1303.7	1017.5	972.1	1026.6	1240.1	1335.5	1290.0
40°	1035.7	1067.5	1013.0	749.5	713.2	740.4	940.3	1035.7	1003.9
42.5°	817.6	840.3	781.3	549.6	508.7	545.1	708.6	794.9	776.7
45°	663.2	663.2	590.5	381.6	331.6	367.9	531.5	622.3	626.8
47.5°	567.8	554.2	463.3	254.4	190.8	240.7	422.4	517.8	531.5
50°	490.6	472.4	381.6	186.2	122.6	172.6	349.8	445.2	458.8
52.5°	422.4	408.8	318.0	145.4	86.3	131.7	295.3	386.1	399.7
55°	354.3	345.2	263.5	113.6	68.1	99.9	236.2	313.4	322.5
57.5°	290.7	277.1	213.5	95.4	54.5	81.8	195.3	258.9	268.0
60°	245.3	231.7	172.6	77.2	45.4	63.6	159.0	213.5	222.6
62.5°	204.4	190.8	140.8	63.6	36.3	54.5	127.2	172.6	181.7
65°	163.5	154.4	109.0	50.0	31.8	40.9	99.9	136.3	145.4
67.5°	131.7	122.6	86.3	40.9	27.3	31.8	77.2	109.0	118.1
70°	99.9	90.8	63.6	31.8	22.7	27.3	59.1	81.8	90.8
72.5°	72.7	68.1	50.0	27.3	18.2	22.7	40.9	59.1	68.1
75°	54.5	50.0	36.3	18.2	13.6	18.2	31.8	45.4	50.0
77.5°	36.3	36.3	27.3	13.6	13.6	13.6	22.7	31.8	31.8
80°	27.3	22.7	18.2	9.1	9.1	9.1	13.6	22.7	22.7
82.5°	18.2	13.6	13.6	9.1	9.1	9.1	9.1	13.6	13.6
85°	9.1	9.1	9.1	4.5	4.5	4.5	4.5	9.1	9.1
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)