

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: P857795

Luminaire Tested: **LD4C35D010 EU4359050 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857795
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: LD4C35D010 EU4359050 4LBMDSWWMH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

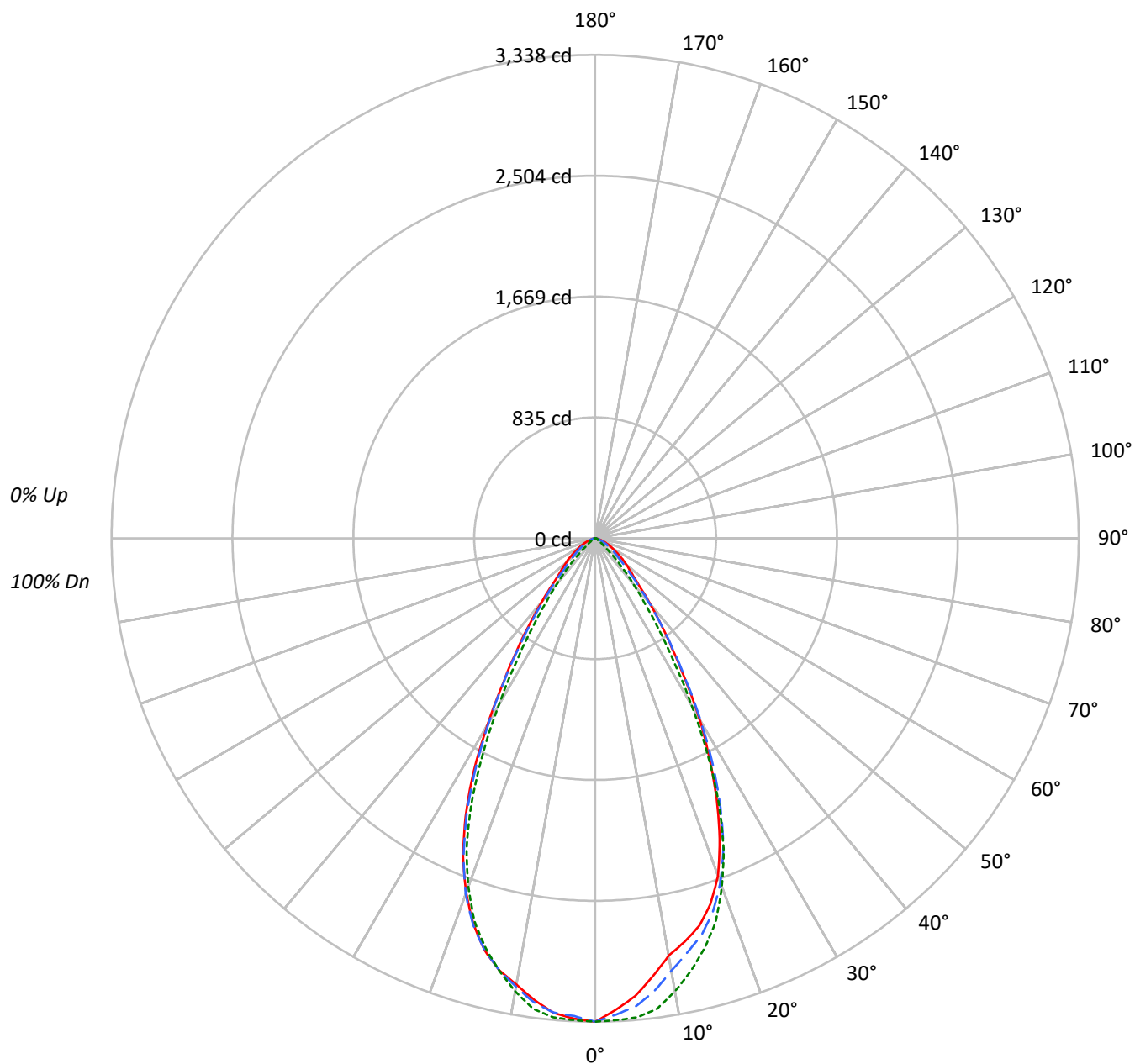
Lumens per Lamp: N/A
Luminaire Lumens: 3039.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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: 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
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	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°	410122	410122	410122
5°	391340	409469	405646
10°	364990	396189	390401
15°	352461	372125	374757
20°	324217	334323	340389
25°	268722	273602	286886
30°	204419	189055	210278
35°	138413	113277	139958
40°	94252	64903	91365
45°	65396	32698	61800
50°	53210	13302	49769
55°	43073	8289	39196
60°	34202	6339	31033
65°	26977	5233	23982
70°	20367	4634	18535
75°	14667	3655	13481
80°	10966	3679	9127
85°	7330	3665	7330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	10.1
10°-20°	806.4	26.5
20°-30°	925.3	30.4
30°-40°	562.1	18.5
40°-50°	240.9	7.9
50°-60°	115.6	3.8
60°-70°	56.2	1.8
70°-80°	20.8	0.7
80°-90°	4.8	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°	2038.6	67.1
0°-40°	2600.7	85.6
0°-60°	2957.1	97.3
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3338	3338	3338	3338	3338	
5°	3173	3243	3320	3287	3289	295
15°	2771	2836	2926	2944	2946	772
25°	1982	2047	2018	2096	2116	899
35°	923	936	755	913	933	591
45°	376	335	188	302	356	306
55°	201	150	39	134	183	181
65°	93	62	18	57	82	94
75°	31	21	8	18	28	34
85°	5	5	3	3	5	7
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°	3338.3	3338.3	3338.3	3338.3	3338.3	3338.3	3338.3	3338.3	3338.3
2.5°	3258.4	3294.5	3291.9	3322.8	3330.6	3322.8	3302.2	3322.8	3320.3
5°	3173.3	3214.6	3242.9	3294.5	3320.3	3315.1	3286.7	3291.9	3289.3
7.5°	3049.6	3101.1	3150.1	3227.5	3276.4	3273.9	3232.6	3224.9	3214.6
10°	2925.8	2974.8	3031.5	3111.4	3175.9	3186.2	3145.0	3134.6	3129.5
12.5°	2853.7	2892.3	2931.0	3000.6	3057.3	3077.9	3054.7	3057.3	3054.7
15°	2771.2	2809.8	2835.6	2887.2	2925.8	2954.2	2943.9	2959.4	2946.5
17.5°	2647.4	2693.8	2704.1	2742.8	2771.2	2789.2	2799.5	2815.0	2794.4
20°	2479.9	2516.0	2528.9	2544.3	2557.2	2580.4	2611.3	2626.8	2603.6
22.5°	2245.3	2314.9	2312.3	2304.6	2317.5	2325.2	2374.2	2400.0	2381.9
25°	1982.4	2054.5	2046.8	2015.9	2018.4	2033.9	2095.8	2129.3	2116.4
27.5°	1706.5	1773.6	1755.5	1696.2	1680.7	1703.9	1783.9	1822.5	1814.8
30°	1441.0	1484.8	1456.5	1350.8	1332.7	1361.1	1464.2	1502.9	1482.3
32.5°	1154.9	1188.4	1175.5	1046.6	1015.7	1044.0	1165.2	1201.3	1178.1
35°	922.9	953.8	935.8	783.7	755.3	786.2	912.6	953.8	933.2
37.5°	739.8	763.0	739.8	577.4	551.7	582.6	703.7	757.9	732.1
40°	587.7	605.8	574.9	425.3	404.7	420.2	533.6	587.7	569.7
42.5°	464.0	476.9	443.4	311.9	288.7	309.3	402.1	451.1	440.8
45°	376.4	376.4	335.1	216.5	188.2	208.8	301.6	353.2	355.7
47.5°	322.2	314.5	262.9	144.4	108.3	136.6	239.7	293.9	301.6
50°	278.4	268.1	216.5	105.7	69.6	98.0	198.5	252.6	260.4
52.5°	239.7	232.0	180.4	82.5	49.0	74.8	167.6	219.1	226.8
55°	201.1	195.9	149.5	64.4	38.7	56.7	134.0	177.9	183.0
57.5°	165.0	157.2	121.2	54.1	30.9	46.4	110.8	146.9	152.1
60°	139.2	131.5	98.0	43.8	25.8	36.1	90.2	121.2	126.3
62.5°	116.0	108.3	79.9	36.1	20.6	30.9	72.2	98.0	103.1
65°	92.8	87.6	61.9	28.4	18.0	23.2	56.7	77.3	82.5
67.5°	74.8	69.6	49.0	23.2	15.5	18.0	43.8	61.9	67.0
70°	56.7	51.6	36.1	18.0	12.9	15.5	33.5	46.4	51.6
72.5°	41.2	38.7	28.4	15.5	10.3	12.9	23.2	33.5	38.7
75°	30.9	28.4	20.6	10.3	7.7	10.3	18.0	25.8	28.4
77.5°	20.6	20.6	15.5	7.7	7.7	7.7	12.9	18.0	18.0
80°	15.5	12.9	10.3	5.2	5.2	5.2	7.7	12.9	12.9
82.5°	10.3	7.7	7.7	5.2	5.2	5.2	5.2	7.7	7.7
85°	5.2	5.2	5.2	2.6	2.6	2.6	2.6	5.2	5.2
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)