

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: P857752

Luminaire Tested: **LD4C35D010 EU4359035 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857752
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 EU4359035 4LBMDSWWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

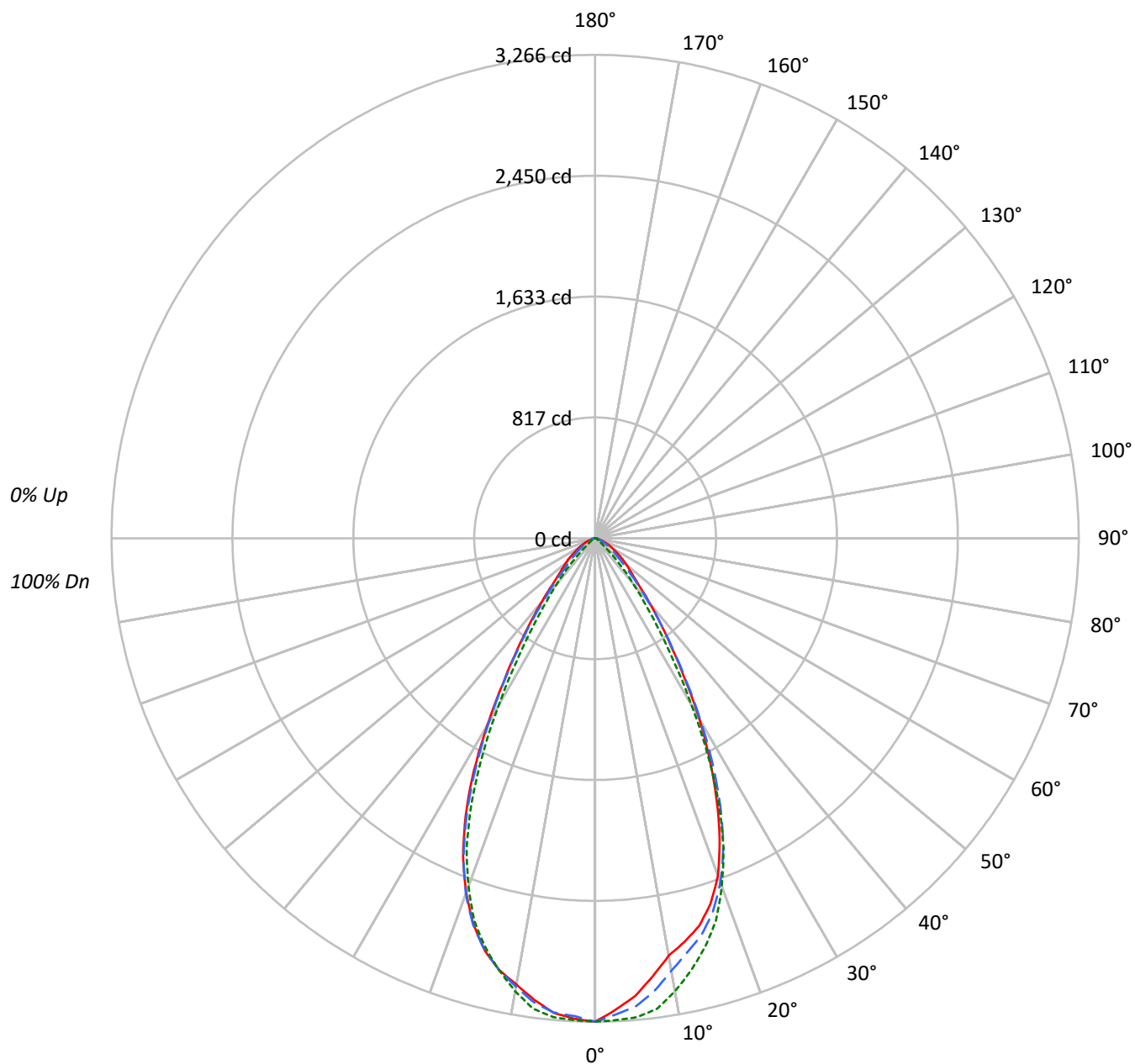
Lumens per Lamp: N/A
Luminaire Lumens: 2973.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	401215	401215	401215
5°	382843	400565	396840
10°	357068	387582	381918
15°	344805	364048	366617
20°	317170	327067	333003
25°	262880	267665	280651
30°	199979	184956	205710
35°	135399	110818	136913
40°	92215	63492	89376
45°	63971	31986	60462
50°	52063	13016	48680
55°	42131	8096	38361
60°	33465	6192	30369
65°	26395	5145	23459
70°	19936	4526	18104
75°	14382	3607	13148
80°	10683	3537	8914
85°	7048	3524	7048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	10.1
10°-20°	788.9	26.5
20°-30°	905.2	30.4
30°-40°	549.9	18.5
40°-50°	235.7	7.9
50°-60°	113.0	3.8
60°-70°	55.0	1.8
70°-80°	20.4	0.7
80°-90°	4.7	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°	1994.3	67.1
0°-40°	2544.2	85.6
0°-60°	2892.9	97.3
0°-90°	2973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3266	3266	3266	3266	3266	
5°	3104	3172	3248	3215	3218	288
15°	2711	2774	2862	2880	2882	755
25°	1939	2002	1975	2050	2070	880
35°	903	915	739	893	913	579
45°	368	328	184	295	348	299
55°	197	146	38	131	179	178
65°	91	60	18	56	81	92
75°	30	20	8	18	28	33
85°	5	5	2	2	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°	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8
2.5°	3187.6	3222.9	3220.4	3250.7	3258.2	3250.7	3230.5	3250.7	3248.1
5°	3104.4	3144.7	3172.5	3222.9	3248.1	3243.1	3215.4	3220.4	3217.9
7.5°	2983.3	3033.8	3081.7	3157.4	3205.3	3202.8	3162.4	3154.8	3144.7
10°	2862.3	2910.2	2965.7	3043.9	3106.9	3117.0	3076.7	3066.6	3061.5
12.5°	2791.7	2829.5	2867.3	2935.4	2990.9	3011.1	2988.4	2990.9	2988.4
15°	2711.0	2748.8	2774.0	2824.5	2862.3	2890.0	2880.0	2895.1	2882.5
17.5°	2589.9	2635.3	2645.4	2683.2	2711.0	2728.6	2738.7	2753.9	2733.7
20°	2426.0	2461.3	2473.9	2489.1	2501.7	2524.4	2554.6	2569.8	2547.1
22.5°	2196.5	2264.6	2262.1	2254.5	2267.1	2274.7	2322.6	2347.8	2330.2
25°	1939.3	2009.9	2002.3	1972.1	1974.6	1989.7	2050.3	2083.0	2070.4
27.5°	1669.5	1735.0	1717.4	1659.4	1644.2	1666.9	1745.1	1782.9	1775.4
30°	1409.7	1452.6	1424.8	1321.5	1303.8	1331.5	1432.4	1470.2	1450.1
32.5°	1129.8	1162.6	1150.0	1023.9	993.6	1021.3	1139.9	1175.2	1152.5
35°	902.8	933.1	915.4	766.6	738.9	769.2	892.7	933.1	912.9
37.5°	723.8	746.5	723.8	564.9	539.7	569.9	688.5	741.4	716.2
40°	575.0	592.6	562.4	416.1	395.9	411.1	522.0	575.0	557.3
42.5°	453.9	466.5	433.8	305.1	282.4	302.6	393.4	441.3	431.2
45°	368.2	368.2	327.8	211.8	184.1	204.3	295.1	345.5	348.0
47.5°	315.2	307.7	257.2	141.2	105.9	133.7	234.5	287.5	295.1
50°	272.4	262.3	211.8	103.4	68.1	95.8	194.2	247.1	254.7
52.5°	234.5	227.0	176.5	80.7	47.9	73.1	163.9	214.4	221.9
55°	196.7	191.7	146.3	63.0	37.8	55.5	131.1	174.0	179.1
57.5°	161.4	153.8	118.5	53.0	30.3	45.4	108.4	143.7	148.8
60°	136.2	128.6	95.8	42.9	25.2	35.3	88.3	118.5	123.6
62.5°	113.5	105.9	78.2	35.3	20.2	30.3	70.6	95.8	100.9
65°	90.8	85.7	60.5	27.7	17.7	22.7	55.5	75.7	80.7
67.5°	73.1	68.1	47.9	22.7	15.1	17.7	42.9	60.5	65.6
70°	55.5	50.4	35.3	17.7	12.6	15.1	32.8	45.4	50.4
72.5°	40.3	37.8	27.7	15.1	10.1	12.6	22.7	32.8	37.8
75°	30.3	27.7	20.2	10.1	7.6	10.1	17.7	25.2	27.7
77.5°	20.2	20.2	15.1	7.6	7.6	7.6	12.6	17.7	17.7
80°	15.1	12.6	10.1	5.0	5.0	5.0	7.6	12.6	12.6
82.5°	10.1	7.6	7.6	5.0	5.0	5.0	5.0	7.6	7.6
85°	5.0	5.0	5.0	2.5	2.5	2.5	2.5	5.0	5.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)