

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: P859098

Luminaire Tested: **LD4C55D010 EU4559035 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859098
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: LD4C55D010 EU4559035 4LBMDDWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

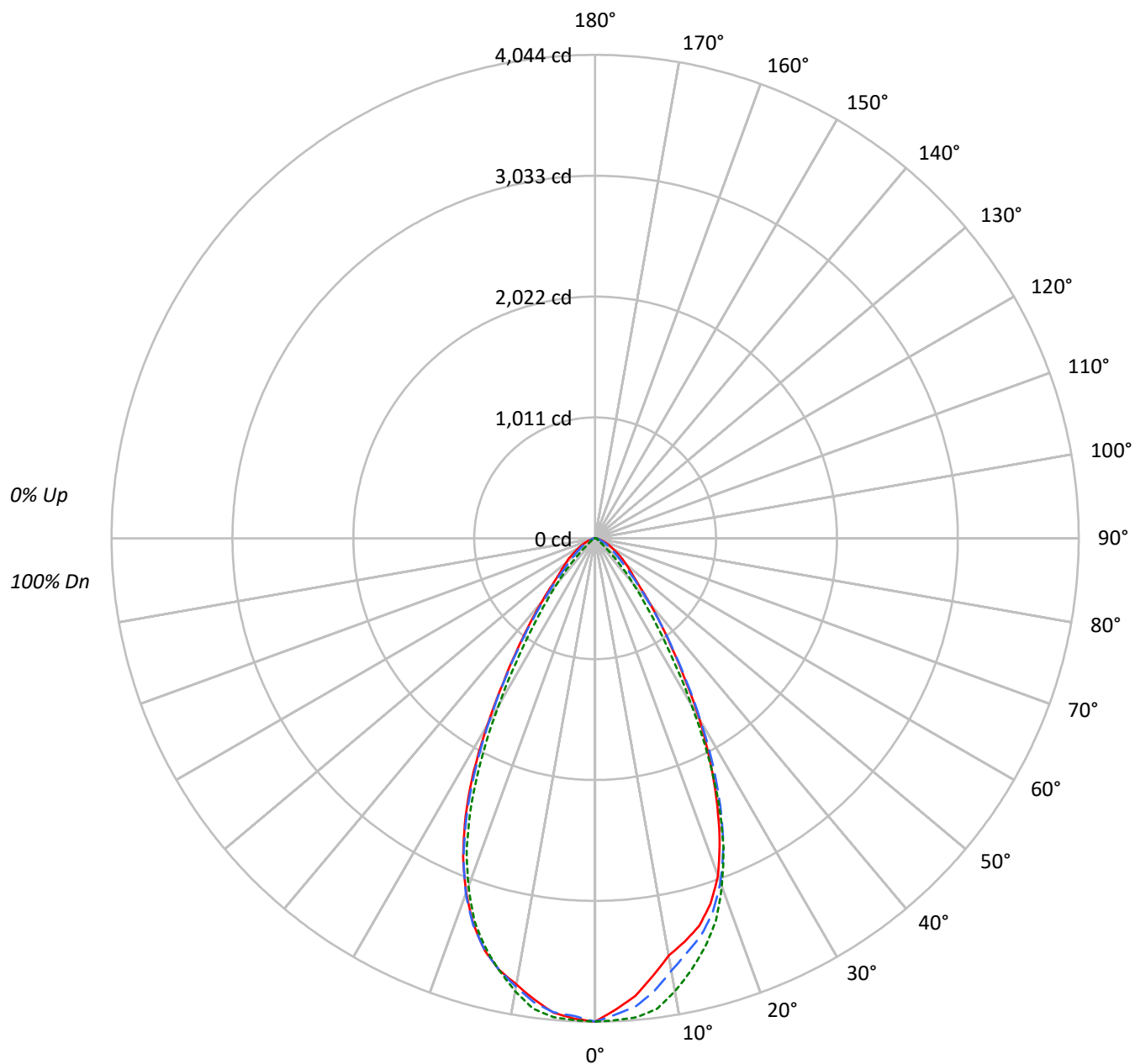
Lumens per Lamp: N/A
Luminaire Lumens: 3681.0 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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°	496758	496758	496758
5°	474016	495967	491343
10°	442097	479883	472872
15°	426917	450739	453919
20°	392711	404948	412295
25°	325478	331402	347492
30°	247601	229003	254694
35°	167644	137213	169518
40°	114170	78615	110674
45°	79209	39596	74865
50°	64448	16112	60281
55°	52155	10024	47486
60°	41426	7666	37593
65°	32674	6366	29041
70°	24677	5604	22414
75°	17800	4462	16281
80°	13230	4386	11037
85°	8739	4370	8739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	10.1
10°-20°	976.8	26.5
20°-30°	1120.7	30.4
30°-40°	680.8	18.5
40°-50°	291.8	7.9
50°-60°	140.0	3.8
60°-70°	68.1	1.8
70°-80°	25.3	0.7
80°-90°	5.8	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°	2469.3	67.1
0°-40°	3150.1	85.6
0°-60°	3581.9	97.3
0°-90°	3681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4044	4044	4044	4044	4044	
5°	3844	3928	4022	3981	3984	357
15°	3357	3435	3544	3566	3569	935
25°	2401	2479	2445	2538	2564	1089
35°	1118	1133	915	1105	1130	716
45°	456	406	228	365	431	370
55°	244	181	47	162	222	220
65°	112	75	22	69	100	114
75°	38	25	9	22	34	41
85°	6	6	3	3	6	8
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°	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5
2.5°	3946.7	3990.4	3987.3	4024.8	4034.2	4024.8	3999.8	4024.8	4021.7
5°	3843.7	3893.6	3928.0	3990.4	4021.7	4015.4	3981.1	3987.3	3984.2
7.5°	3693.8	3756.3	3815.6	3909.3	3968.6	3965.5	3915.5	3906.1	3893.6
10°	3543.9	3603.3	3672.0	3768.8	3846.8	3859.3	3809.3	3796.9	3790.6
12.5°	3456.5	3503.3	3550.2	3634.5	3703.2	3728.2	3700.1	3703.2	3700.1
15°	3356.6	3403.4	3434.7	3497.1	3543.9	3578.3	3565.8	3584.5	3568.9
17.5°	3206.7	3262.9	3275.4	3322.2	3356.6	3378.5	3390.9	3409.7	3384.7
20°	3003.8	3047.5	3063.1	3081.8	3097.4	3125.5	3163.0	3181.7	3153.6
22.5°	2719.6	2803.9	2800.8	2791.4	2807.0	2816.4	2875.7	2907.0	2885.1
25°	2401.1	2488.6	2479.2	2441.7	2444.8	2463.6	2538.5	2579.1	2563.5
27.5°	2067.0	2148.2	2126.4	2054.5	2035.8	2063.9	2160.7	2207.5	2198.2
30°	1745.4	1798.5	1764.2	1636.1	1614.3	1648.6	1773.5	1820.4	1795.4
32.5°	1398.8	1439.4	1423.8	1267.7	1230.2	1264.6	1411.3	1455.0	1426.9
35°	1117.8	1155.3	1133.4	949.2	914.9	952.3	1105.3	1155.3	1130.3
37.5°	896.1	924.2	896.1	699.4	668.2	705.7	852.4	918.0	886.8
40°	711.9	733.8	696.3	515.2	490.2	509.0	646.3	711.9	690.1
42.5°	562.0	577.6	537.1	377.8	349.7	374.7	487.1	546.4	533.9
45°	455.9	455.9	405.9	262.3	227.9	252.9	365.3	427.8	430.9
47.5°	390.3	380.9	318.5	174.9	131.1	165.5	290.4	356.0	365.3
50°	337.2	324.7	262.3	128.0	84.3	118.7	240.4	306.0	315.4
52.5°	290.4	281.0	218.6	99.9	59.3	90.5	203.0	265.4	274.8
55°	243.5	237.3	181.1	78.1	46.8	68.7	162.4	215.4	221.7
57.5°	199.8	190.5	146.8	65.6	37.5	56.2	134.3	178.0	184.2
60°	168.6	159.2	118.7	53.1	31.2	43.7	109.3	146.8	153.0
62.5°	140.5	131.1	96.8	43.7	25.0	37.5	87.4	118.7	124.9
65°	112.4	106.2	74.9	34.3	21.9	28.1	68.7	93.7	99.9
67.5°	90.5	84.3	59.3	28.1	18.7	21.9	53.1	74.9	81.2
70°	68.7	62.4	43.7	21.9	15.6	18.7	40.6	56.2	62.4
72.5°	50.0	46.8	34.3	18.7	12.5	15.6	28.1	40.6	46.8
75°	37.5	34.3	25.0	12.5	9.4	12.5	21.9	31.2	34.3
77.5°	25.0	25.0	18.7	9.4	9.4	9.4	15.6	21.9	21.9
80°	18.7	15.6	12.5	6.2	6.2	6.2	9.4	15.6	15.6
82.5°	12.5	9.4	9.4	6.2	6.2	6.2	6.2	9.4	9.4
85°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)