

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: P859035

Luminaire Tested: **LD4C50D010 EU4509050 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859035
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: LD4C50D010 EU4509050 4LBMDSWWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

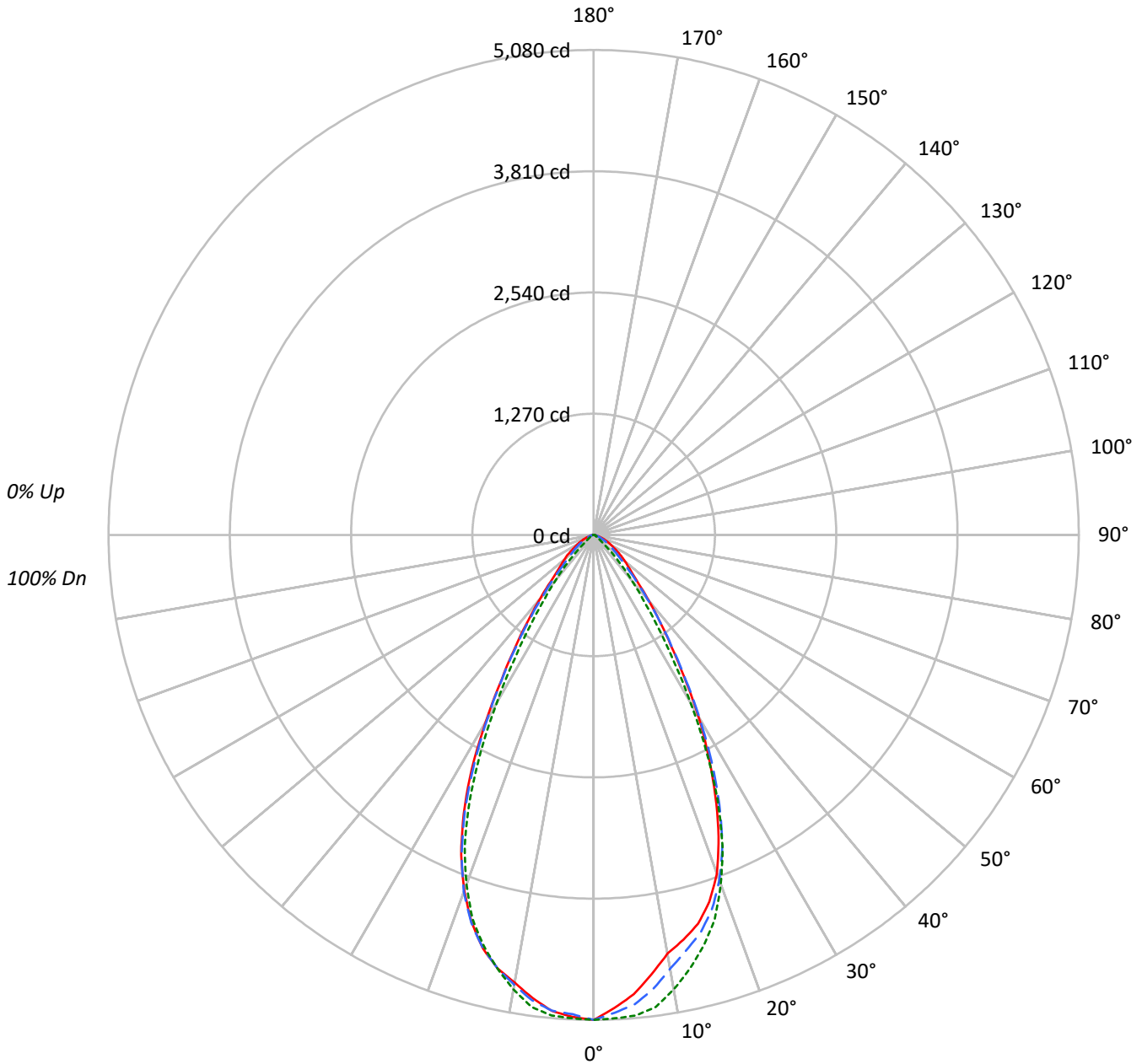
Lumens per Lamp: N/A
Luminaire Lumens: 4625.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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					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				100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	624157	624157	624157
5°	595575	623150	617354
10°	555481	602948	594141
15°	536400	566340	570333
20°	493418	508806	518036
25°	408952	416394	436605
30°	311097	287733	320005
35°	210642	172398	212996
40°	143454	98774	139044
45°	99519	49759	94063
50°	80980	20240	75724
55°	65542	12594	59651
60°	52065	9632	47225
65°	41046	7994	36482
70°	30999	7040	28197
75°	22357	5601	20506
80°	16626	5518	13867
85°	10995	5497	10995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	10.1
10°-20°	1227.3	26.5
20°-30°	1408.1	30.4
30°-40°	855.4	18.5
40°-50°	366.6	7.9
50°-60°	175.9	3.8
60°-70°	85.5	1.8
70°-80°	31.7	0.7
80°-90°	7.3	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°	3102.5	67.1
0°-40°	3958.0	85.6
0°-60°	4500.4	97.3
0°-90°	4625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5080	5080	5080	5080	5080	
5°	4829	4935	5053	5002	5006	449
15°	4217	4316	4453	4480	4484	1174
25°	3017	3115	3072	3190	3221	1369
35°	1404	1424	1150	1389	1420	900
45°	573	510	286	459	541	465
55°	306	228	59	204	278	276
65°	141	94	28	86	126	143
75°	47	31	12	28	43	52
85°	8	8	4	4	8	11
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°	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5
2.5°	4958.9	5013.8	5009.9	5057.0	5068.7	5057.0	5025.6	5057.0	5053.0
5°	4829.4	4892.2	4935.3	5013.8	5053.0	5045.2	5002.0	5009.9	5006.0
7.5°	4641.1	4719.6	4794.1	4911.8	4986.3	4982.4	4919.6	4907.9	4892.2
10°	4452.8	4527.3	4613.6	4735.3	4833.3	4849.0	4786.3	4770.6	4762.7
12.5°	4342.9	4401.8	4460.6	4566.6	4652.9	4684.3	4648.9	4652.9	4648.9
15°	4217.4	4276.2	4315.5	4393.9	4452.8	4495.9	4480.3	4503.8	4484.2
17.5°	4029.1	4099.7	4115.4	4174.2	4217.4	4244.9	4260.6	4284.1	4252.7
20°	3774.1	3829.0	3848.6	3872.2	3891.8	3927.1	3974.2	3997.7	3962.4
22.5°	3417.1	3523.0	3519.1	3507.3	3526.9	3538.7	3613.2	3652.5	3625.0
25°	3016.9	3126.8	3115.0	3067.9	3071.8	3095.4	3189.5	3240.5	3220.9
27.5°	2597.1	2699.1	2671.7	2581.4	2557.9	2593.2	2714.8	2773.7	2761.9
30°	2193.0	2259.7	2216.6	2055.7	2028.3	2071.4	2228.4	2287.2	2255.8
32.5°	1757.6	1808.6	1789.0	1592.8	1545.7	1588.9	1773.3	1828.2	1792.9
35°	1404.5	1451.6	1424.1	1192.6	1149.5	1196.6	1388.8	1451.6	1420.2
37.5°	1125.9	1161.3	1125.9	878.8	839.6	886.6	1071.0	1153.4	1114.2
40°	894.5	921.9	874.9	647.3	615.9	639.5	812.1	894.5	867.0
42.5°	706.2	725.8	674.8	474.7	439.4	470.8	612.0	686.6	670.9
45°	572.8	572.8	510.0	329.5	286.4	317.8	459.0	537.5	541.4
47.5°	490.4	478.6	400.2	219.7	164.8	207.9	364.9	447.2	459.0
50°	423.7	408.0	329.5	160.8	105.9	149.1	302.1	384.5	396.2
52.5°	364.9	353.1	274.6	125.5	74.5	113.8	255.0	333.5	345.2
55°	306.0	298.2	227.5	98.1	58.8	86.3	204.0	270.7	278.5
57.5°	251.1	239.3	184.4	82.4	47.1	70.6	168.7	223.6	231.5
60°	211.9	200.1	149.1	66.7	39.2	54.9	137.3	184.4	192.2
62.5°	176.5	164.8	121.6	54.9	31.4	47.1	109.8	149.1	156.9
65°	141.2	133.4	94.2	43.2	27.5	35.3	86.3	117.7	125.5
67.5°	113.8	105.9	74.5	35.3	23.5	27.5	66.7	94.2	102.0
70°	86.3	78.5	54.9	27.5	19.6	23.5	51.0	70.6	78.5
72.5°	62.8	58.8	43.2	23.5	15.7	19.6	35.3	51.0	58.8
75°	47.1	43.2	31.4	15.7	11.8	15.7	27.5	39.2	43.2
77.5°	31.4	31.4	23.5	11.8	11.8	11.8	19.6	27.5	27.5
80°	23.5	19.6	15.7	7.8	7.8	7.8	11.8	19.6	19.6
82.5°	15.7	11.8	11.8	7.8	7.8	7.8	7.8	11.8	11.8
85°	7.8	7.8	7.8	3.9	3.9	3.9	3.9	7.8	7.8
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)