

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: P859403

Luminaire Tested: **LD4C65D010 EU4659050 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859403
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: LD4C65D010 EU4659050 4LBMDSWH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

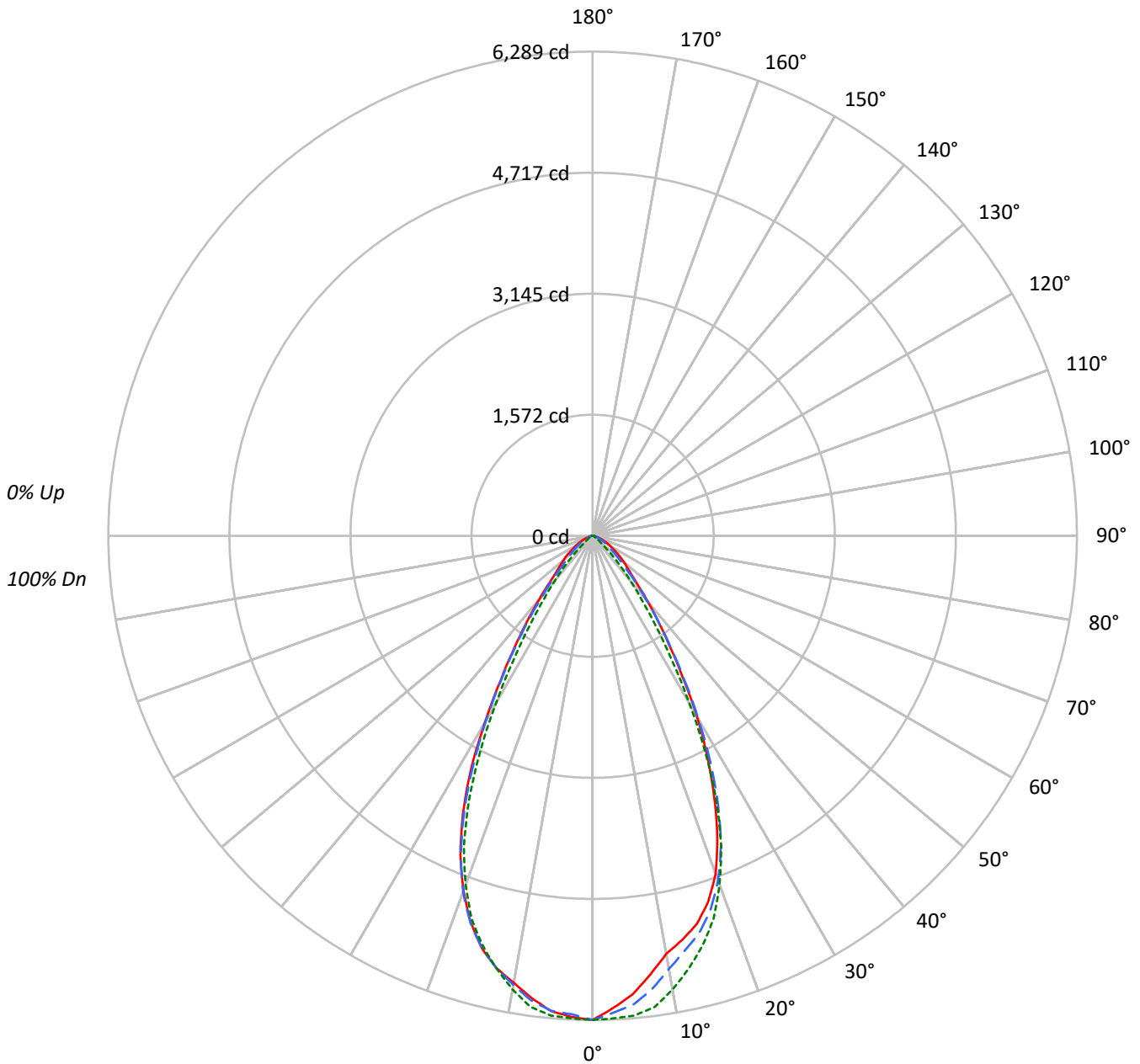
Lumens per Lamp: N/A
Luminaire Lumens: 5725.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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									
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°	772601	772601	772601
5°	737223	771359	764182
10°	687590	746359	735456
15°	663981	701031	705978
20°	610768	629817	641243
25°	506212	515430	540453
30°	385090	356165	396113
35°	260734	213401	263659
40°	177566	122269	172113
45°	123182	61591	116441
50°	100246	25057	93747
55°	81135	15593	73852
60°	64424	11941	58478
65°	50814	9884	45174
70°	38363	8729	34878
75°	27673	6930	25347
80°	20588	6863	17192
85°	13673	6907	13673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.2	10.1
10°-20°	1519.2	26.5
20°-30°	1743.0	30.4
30°-40°	1058.9	18.5
40°-50°	453.8	7.9
50°-60°	217.7	3.8
60°-70°	105.8	1.8
70°-80°	39.3	0.7
80°-90°	9.1	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°	3840.5	67.1
0°-40°	4899.3	85.6
0°-60°	5570.8	97.3
0°-90°	5725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5725.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6289	6289	6289	6289	6289	
5°	5978	6109	6255	6192	6197	555
15°	5220	5342	5512	5546	5551	1453
25°	3734	3856	3802	3948	3987	1694
35°	1738	1763	1423	1719	1758	1114
45°	709	631	354	568	670	576
55°	379	282	73	252	345	342
65°	175	116	34	107	155	177
75°	58	39	15	34	53	64
85°	10	10	5	5	10	13
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°	6288.8	6288.8	6288.8	6288.8	6288.8	6288.8	6288.8	6288.8	6288.8
2.5°	6138.3	6206.3	6201.4	6259.7	6274.3	6259.7	6220.8	6259.7	6254.8
5°	5978.0	6055.7	6109.1	6206.3	6254.8	6245.1	6191.7	6201.4	6196.6
7.5°	5744.9	5842.1	5934.3	6080.0	6172.3	6167.4	6089.7	6075.2	6055.7
10°	5511.8	5604.1	5710.9	5861.5	5982.9	6002.3	5924.6	5905.2	5895.5
12.5°	5375.9	5448.7	5521.5	5652.7	5759.5	5798.3	5754.6	5759.5	5754.6
15°	5220.5	5293.3	5341.9	5439.0	5511.8	5565.2	5545.8	5575.0	5550.7
17.5°	4987.4	5074.8	5094.2	5167.0	5220.5	5254.5	5273.9	5303.0	5264.2
20°	4671.7	4739.7	4764.0	4793.1	4817.4	4861.1	4919.4	4948.5	4904.8
22.5°	4229.8	4360.9	4356.0	4341.5	4365.8	4380.3	4472.6	4521.2	4487.2
25°	3734.4	3870.4	3855.9	3797.6	3802.4	3831.6	3948.1	4011.3	3987.0
27.5°	3214.8	3341.1	3307.1	3195.4	3166.3	3210.0	3360.5	3433.4	3418.8
30°	2714.6	2797.2	2743.8	2544.7	2510.7	2564.1	2758.3	2831.2	2792.3
32.5°	2175.6	2238.7	2214.4	1971.6	1913.4	1966.8	2195.0	2263.0	2219.3
35°	1738.5	1796.8	1762.8	1476.3	1422.9	1481.2	1719.1	1796.8	1758.0
37.5°	1393.7	1437.4	1393.7	1087.8	1039.2	1097.5	1325.8	1427.7	1379.2
40°	1107.2	1141.2	1082.9	801.3	762.4	791.6	1005.2	1107.2	1073.2
42.5°	874.1	898.4	835.3	587.6	543.9	582.7	757.6	849.8	830.4
45°	709.0	709.0	631.3	407.9	354.5	393.4	568.2	665.3	670.2
47.5°	607.0	592.5	495.3	271.9	204.0	257.4	451.6	553.6	568.2
50°	524.5	505.0	407.9	199.1	131.1	184.5	373.9	475.9	490.5
52.5°	451.6	437.1	339.9	155.4	92.3	140.8	315.7	412.8	427.3
55°	378.8	369.1	281.7	121.4	72.8	106.8	252.5	335.1	344.8
57.5°	310.8	296.2	228.2	102.0	58.3	87.4	208.8	276.8	286.5
60°	262.2	247.7	184.5	82.6	48.6	68.0	170.0	228.2	238.0
62.5°	218.5	204.0	150.5	68.0	38.8	58.3	136.0	184.5	194.2
65°	174.8	165.1	116.5	53.4	34.0	43.7	106.8	145.7	155.4
67.5°	140.8	131.1	92.3	43.7	29.1	34.0	82.6	116.5	126.3
70°	106.8	97.1	68.0	34.0	24.3	29.1	63.1	87.4	97.1
72.5°	77.7	72.8	53.4	29.1	19.4	24.3	43.7	63.1	72.8
75°	58.3	53.4	38.8	19.4	14.6	19.4	34.0	48.6	53.4
77.5°	38.8	38.8	29.1	14.6	14.6	14.6	24.3	34.0	34.0
80°	29.1	24.3	19.4	9.7	9.7	9.7	14.6	24.3	24.3
82.5°	19.4	14.6	14.6	9.7	9.7	9.7	9.7	14.6	14.6
85°	9.7	9.7	9.7	4.9	4.9	4.9	4.9	9.7	9.7
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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)