

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: P859404

Luminaire Tested: **LD4C65D010 EU4659050 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C65D010 EU4659050 4LBMDSWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

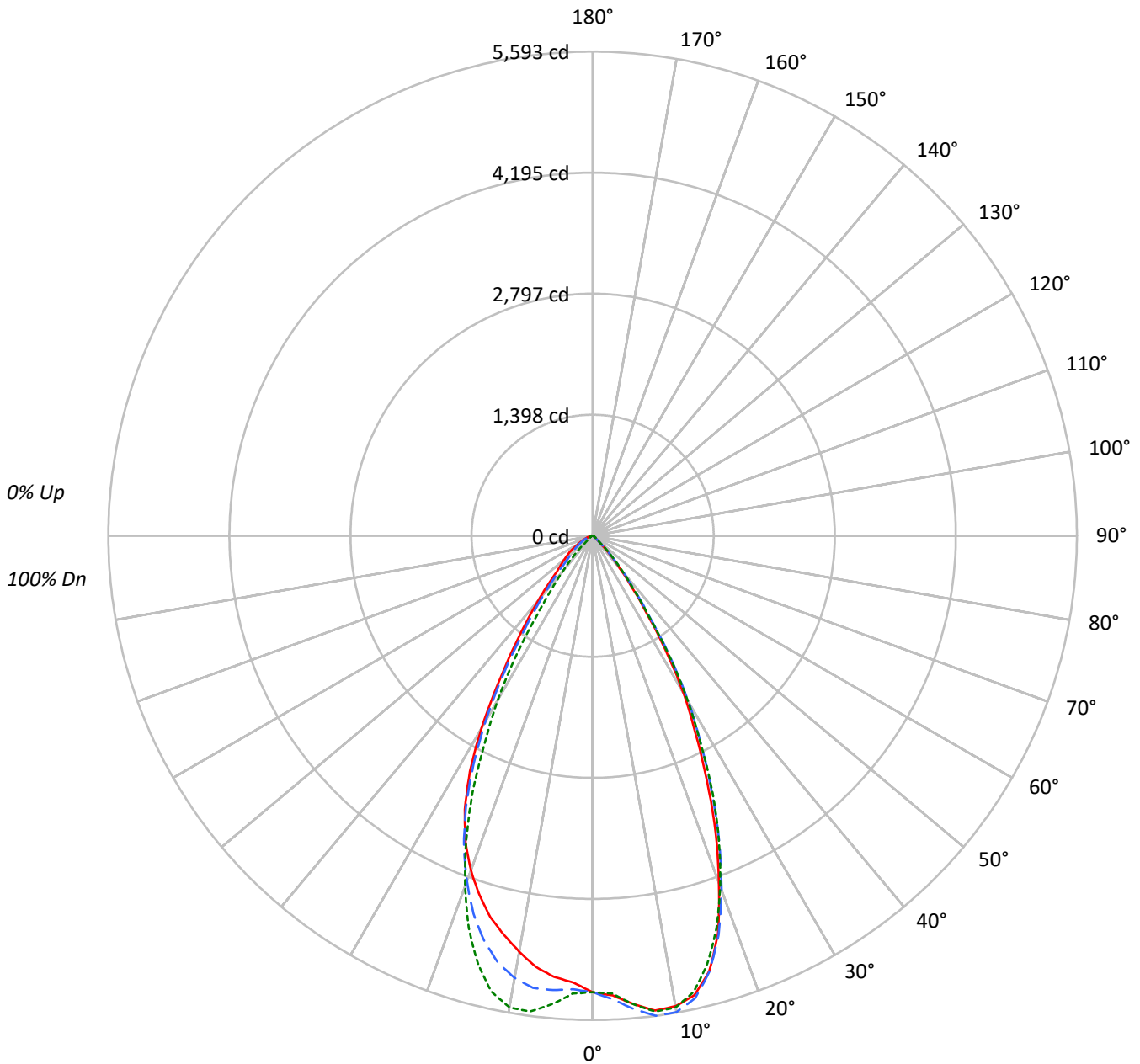
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4687.0 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 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<sub>in</sub>): 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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	647659	647659	647659
5°	669717	670161	630562
10°	688263	690060	608586
15°	662251	650779	580101
20°	557610	562801	537320
25°	423579	445104	472988
30°	297918	310203	363939
35°	160730	168304	240817
40°	77541	85640	156252
45°	27590	37615	101569
50°	10340	13111	81381
55°	7732	9274	67234
60°	6216	7101	48773
65°	5233	6308	37761
70°	3879	5172	29814
75°	3418	5126	22262
80°	2547	5094	15352
85°	0	5075	10149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.3	11.0
10°-20°	1384.7	29.5
20°-30°	1502.1	32.0
30°-40°	833.4	17.8
40°-50°	265.4	5.7
50°-60°	107.0	2.3
60°-70°	54.1	1.2
70°-80°	22.4	0.5
80°-90°	4.6	0.1
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°	3400.1	72.5
0°-40°	4233.4	90.3
0°-60°	4605.9	98.3
0°-90°	4687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4687.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5272	5272	5272	5272	5272	
5°	5431	5488	5434	5268	5113	522
15°	5207	5210	5117	4842	4561	1424
25°	3125	3255	3284	3460	3489	1427
35°	1072	1158	1122	1483	1606	711
45°	159	188	216	484	585	152
55°	36	36	43	231	314	33
65°	18	18	22	105	130	18
75°	7	7	11	36	47	9
85°	0	0	4	7	7	0
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°	5271.8	5271.8	5271.8	5271.8	5271.8	5271.8	5271.8	5271.8	5271.8
2.5°	5315.1	5362.0	5358.4	5322.3	5293.5	5282.6	5243.0	5196.0	5163.6
5°	5430.6	5488.3	5488.3	5459.5	5434.2	5372.9	5268.2	5167.2	5113.1
7.5°	5531.6	5589.4	5593.0	5571.3	5542.4	5441.4	5268.2	5105.8	5022.8
10°	5517.2	5560.5	5585.7	5564.1	5531.6	5398.1	5185.2	4968.7	4878.5
12.5°	5434.2	5473.9	5470.3	5437.8	5394.5	5257.4	5048.1	4824.4	4723.3
15°	5206.9	5228.5	5210.5	5174.4	5116.7	5012.0	4842.4	4651.2	4561.0
17.5°	4813.6	4842.4	4835.2	4777.5	4755.8	4654.8	4575.4	4427.5	4348.1
20°	4265.1	4355.3	4355.3	4312.0	4304.8	4236.2	4247.0	4167.7	4109.9
22.5°	3713.0	3792.4	3817.6	3799.6	3814.0	3781.6	3882.6	3861.0	3832.1
25°	3124.8	3204.2	3254.7	3247.5	3283.6	3283.6	3460.4	3503.7	3489.3
27.5°	2572.8	2648.5	2706.3	2720.7	2699.1	2738.7	2980.5	3067.1	3067.1
30°	2100.1	2161.4	2215.5	2215.5	2186.7	2215.5	2471.7	2572.8	2565.5
32.5°	1566.0	1634.6	1685.1	1677.9	1652.6	1692.3	1963.0	2064.0	2038.7
35°	1071.7	1118.6	1158.3	1143.9	1122.2	1187.2	1483.0	1609.3	1605.7
37.5°	725.3	768.6	793.8	783.0	775.8	851.6	1122.2	1262.9	1255.7
40°	483.5	512.4	530.4	526.8	534.0	599.0	844.4	974.3	974.3
42.5°	306.7	324.8	342.8	342.8	360.8	429.4	642.3	754.1	754.1
45°	158.8	169.6	187.6	198.5	216.5	288.7	483.5	577.3	584.6
47.5°	75.8	79.4	86.6	90.2	104.6	180.4	371.7	472.7	494.3
50°	54.1	57.7	57.7	57.7	68.6	137.1	313.9	407.7	425.8
52.5°	43.3	43.3	43.3	46.9	54.1	115.5	270.6	353.6	368.1
55°	36.1	36.1	36.1	36.1	43.3	93.8	230.9	303.1	313.9
57.5°	28.9	28.9	28.9	28.9	36.1	75.8	191.2	241.8	245.4
60°	25.3	25.3	25.3	25.3	28.9	65.0	155.2	198.5	198.5
62.5°	21.7	21.7	21.7	21.7	25.3	54.1	129.9	162.4	158.8
65°	18.0	18.0	18.0	18.0	21.7	43.3	104.6	129.9	129.9
67.5°	14.4	14.4	14.4	14.4	18.0	36.1	83.0	104.6	104.6
70°	10.8	10.8	10.8	10.8	14.4	28.9	68.6	83.0	83.0
72.5°	10.8	10.8	10.8	10.8	10.8	21.7	50.5	65.0	61.3
75°	7.2	7.2	7.2	7.2	10.8	18.0	36.1	46.9	46.9
77.5°	7.2	7.2	7.2	7.2	7.2	14.4	28.9	32.5	32.5
80°	3.6	3.6	3.6	3.6	7.2	10.8	18.0	21.7	21.7
82.5°	0.0	3.6	0.0	3.6	3.6	7.2	14.4	14.4	14.4
85°	0.0	0.0	0.0	0.0	3.6	3.6	7.2	10.8	7.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	3.6	3.6	3.6
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)