

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: P859231

Luminaire Tested: **LD4C60D010 EU4609040 4LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859231  
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: LD4C60D010 EU4609040 4LBMDSWH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

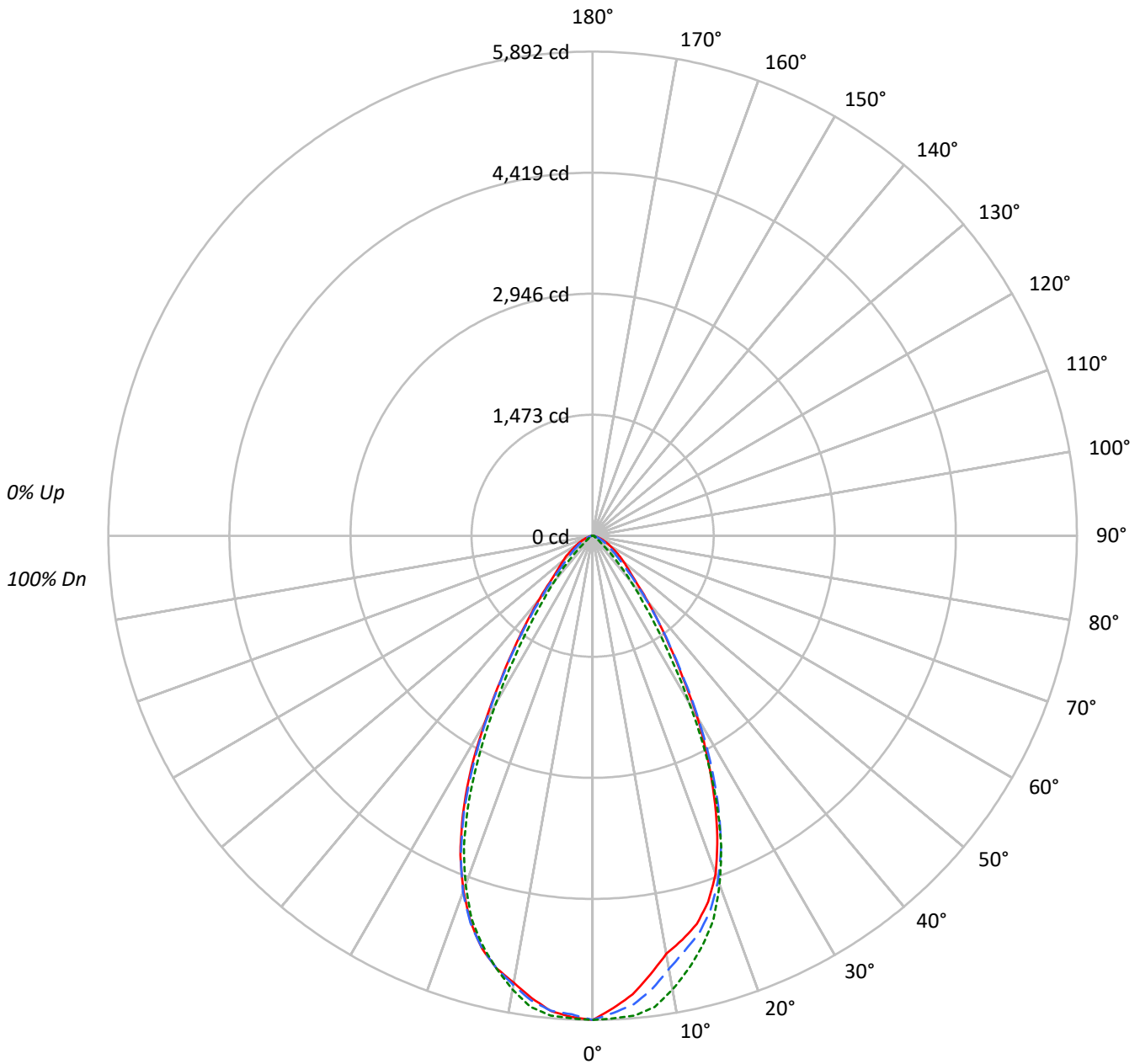
Lumens per Lamp: N/A  
Luminaire Lumens: 5364.1 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72  
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	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°	723890	723890	723890
5°	690743	722721	715987
10°	644240	699291	689074
15°	622111	656833	661463
20°	572253	590099	600806
25°	474303	482938	506375
30°	360818	333709	371146
35°	244297	199949	247026
40°	166372	114571	161272
45°	115416	57717	109092
50°	93919	23489	87842
55°	76015	14629	69204
60°	60370	11180	54793
65°	47616	9273	42325
70°	35956	8190	32687
75°	25917	6503	23781
80°	19314	6438	16131
85°	12827	6484	12827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.7	10.1
10°-20°	1423.4	26.5
20°-30°	1633.1	30.4
30°-40°	992.1	18.5
40°-50°	425.2	7.9
50°-60°	204.0	3.8
60°-70°	99.2	1.8
70°-80°	36.8	0.7
80°-90°	8.5	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°	3598.3	67.1
0°-40°	4590.4	85.6
0°-60°	5219.6	97.3
0°-90°	5364.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5364.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5892	5892	5892	5892	5892	
5°	5601	5724	5860	5801	5806	520
15°	4891	5005	5164	5196	5201	1362
25°	3499	3613	3563	3699	3736	1587
35°	1629	1652	1333	1611	1647	1044
45°	664	592	332	532	628	540
55°	355	264	68	237	323	320
65°	164	109	32	100	146	166
75°	55	36	14	32	50	60
85°	9	9	5	5	9	12
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°	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3	5892.3
2.5°	5751.2	5814.9	5810.4	5865.0	5878.6	5865.0	5828.6	5865.0	5860.4
5°	5601.1	5673.9	5723.9	5814.9	5860.4	5851.3	5801.3	5810.4	5805.8
7.5°	5382.7	5473.7	5560.1	5696.6	5783.1	5778.5	5705.7	5692.1	5673.9
10°	5164.3	5250.7	5350.8	5491.9	5605.6	5623.8	5551.0	5532.8	5523.7
12.5°	5036.9	5105.1	5173.4	5296.2	5396.3	5432.7	5391.8	5396.3	5391.8
15°	4891.3	4959.5	5005.0	5096.0	5164.3	5214.3	5196.1	5223.4	5200.7
17.5°	4672.9	4754.8	4773.0	4841.2	4891.3	4923.1	4941.3	4968.6	4932.2
20°	4377.1	4440.8	4463.6	4490.9	4513.6	4554.6	4609.2	4636.5	4595.5
22.5°	3963.1	4085.9	4081.4	4067.7	4090.5	4104.1	4190.6	4236.1	4204.2
25°	3499.0	3626.4	3612.7	3558.1	3562.7	3590.0	3699.2	3758.3	3735.6
27.5°	3012.1	3130.4	3098.6	2993.9	2966.6	3007.6	3148.6	3216.9	3203.2
30°	2543.5	2620.8	2570.8	2384.2	2352.4	2402.4	2584.4	2652.7	2616.3
32.5°	2038.4	2097.6	2074.8	1847.3	1792.7	1842.8	2056.6	2120.3	2079.4
35°	1628.9	1683.5	1651.7	1383.2	1333.2	1387.8	1610.7	1683.5	1647.1
37.5°	1305.9	1346.8	1305.9	1019.2	973.7	1028.3	1242.2	1337.7	1292.2
40°	1037.4	1069.3	1014.7	750.8	714.4	741.7	941.9	1037.4	1005.6
42.5°	819.0	841.8	782.6	550.6	509.6	546.0	709.8	796.3	778.1
45°	664.3	664.3	591.5	382.2	332.2	368.6	532.4	623.4	627.9
47.5°	568.8	555.1	464.1	254.8	191.1	241.2	423.2	518.7	532.4
50°	491.4	473.2	382.2	186.6	122.9	172.9	350.4	445.9	459.6
52.5°	423.2	409.5	318.5	145.6	86.5	132.0	295.8	386.8	400.4
55°	354.9	345.8	263.9	113.8	68.3	100.1	236.6	314.0	323.1
57.5°	291.2	277.6	213.9	95.6	54.6	81.9	195.7	259.4	268.5
60°	245.7	232.1	172.9	77.4	45.5	63.7	159.3	213.9	223.0
62.5°	204.8	191.1	141.1	63.7	36.4	54.6	127.4	172.9	182.0
65°	163.8	154.7	109.2	50.1	31.9	41.0	100.1	136.5	145.6
67.5°	132.0	122.9	86.5	41.0	27.3	31.9	77.4	109.2	118.3
70°	100.1	91.0	63.7	31.9	22.8	27.3	59.2	81.9	91.0
72.5°	72.8	68.3	50.1	27.3	18.2	22.8	41.0	59.2	68.3
75°	54.6	50.1	36.4	18.2	13.7	18.2	31.9	45.5	50.1
77.5°	36.4	36.4	27.3	13.7	13.7	13.7	22.8	31.9	31.9
80°	27.3	22.8	18.2	9.1	9.1	9.1	13.7	22.8	22.8
82.5°	18.2	13.7	13.7	9.1	9.1	9.1	9.1	13.7	13.7
85°	9.1	9.1	9.1	4.6	4.6	4.6	4.6	9.1	9.1
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)