

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: P799815

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C50D010 EU6509040 6LBMDSWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

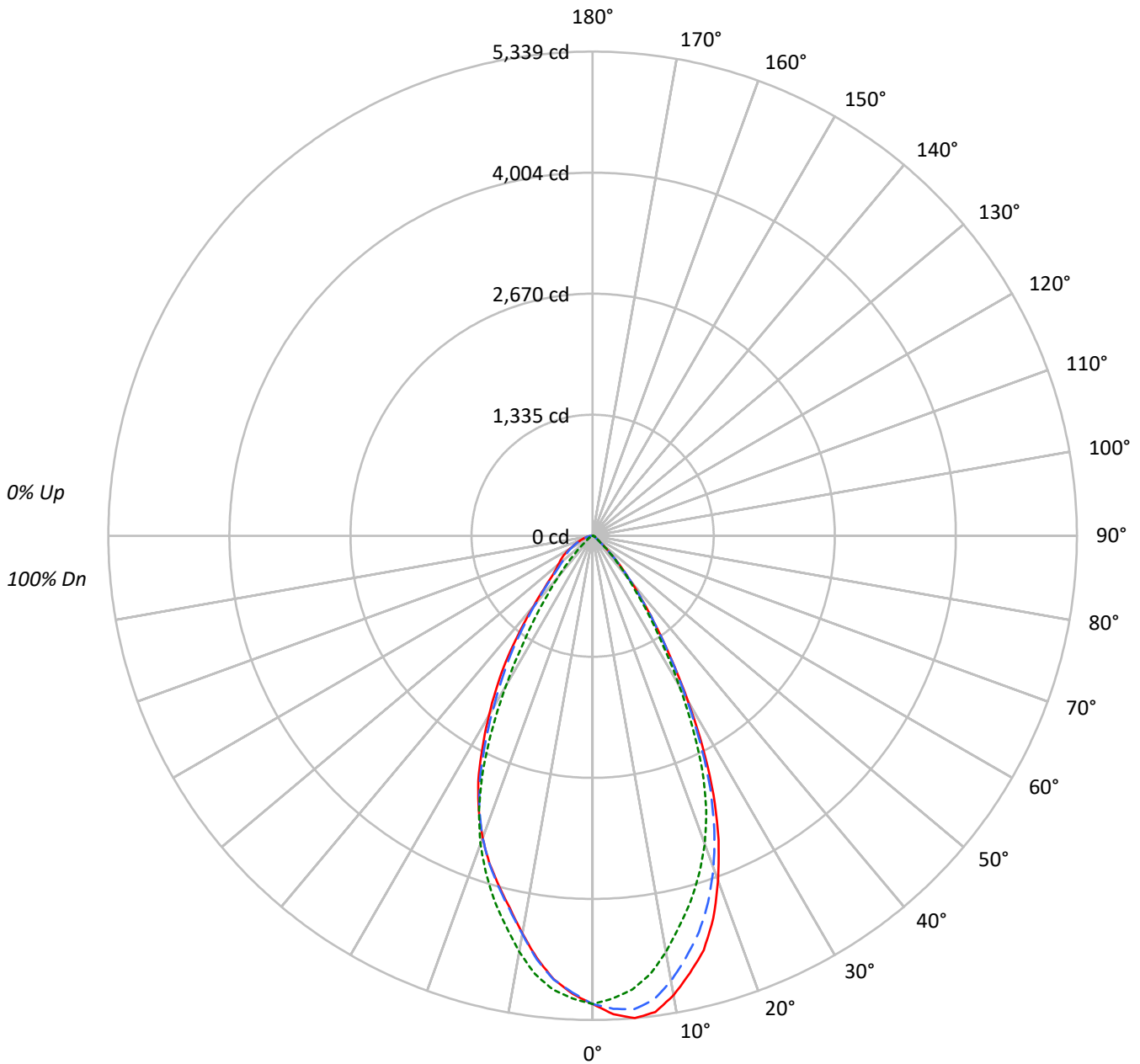
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4445.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
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	110	107	105	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

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

	0°	90°	180°
0°	283026	283026	283026
5°	293792	276386	270135
10°	286278	259247	247841
15°	268486	236886	226647
20°	235705	210888	206856
25°	190632	173254	180391
30°	132527	120683	144370
35°	81680	73930	108957
40°	46222	41442	72364
45°	22444	21413	49385
50°	8546	8546	41977
55°	4683	5534	38747
60°	3421	4397	31741
65°	2893	3762	26008
70°	2500	3206	21414
75°	2351	3304	18406
80°	1421	2810	13354
85°	1384	5598	12580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.6	10.6
10°-20°	1187.9	26.7
20°-30°	1337.3	30.1
30°-40°	828.1	18.6
40°-50°	329.8	7.4
50°-60°	150.1	3.4
60°-70°	86.3	1.9
70°-80°	41.0	0.9
80°-90°	12.0	0.3
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°	2997.8	67.4
0°-40°	3825.9	86.1
0°-60°	4305.8	96.9
0°-90°	4445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4445.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5163	5163	5163	5163	5163	
5°	5339	5241	5022	4913	4909	503
15°	4731	4526	4174	4005	3994	1309
25°	3152	3067	2864	2936	2982	1417
35°	1220	1214	1105	1539	1628	784
45°	290	290	276	601	637	245
55°	49	47	58	356	405	49
65°	22	20	29	198	200	22
75°	11	11	16	85	87	11
85°	2	2	9	20	20	2
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°	5162.8	5162.8	5162.8	5162.8	5162.8	5162.8	5162.8	5162.8	5162.8
2.5°	5280.9	5231.9	5220.7	5178.4	5107.1	5067.0	5042.5	5024.7	5055.9
5°	5338.8	5285.3	5240.8	5153.9	5022.5	4949.0	4913.4	4884.4	4908.9
7.5°	5296.4	5220.7	5160.6	5040.3	4873.3	4759.7	4710.7	4677.3	4699.5
10°	5142.8	5051.4	4982.4	4839.9	4657.2	4521.4	4461.2	4430.0	4452.3
12.5°	4942.3	4866.6	4761.9	4606.0	4410.0	4267.4	4222.9	4198.4	4207.3
15°	4730.7	4641.6	4525.8	4369.9	4173.9	4031.4	4004.6	3989.0	3993.5
17.5°	4423.4	4336.5	4236.3	4084.8	3904.4	3788.6	3788.6	3777.4	3784.1
20°	4040.3	3993.5	3895.5	3768.5	3614.9	3510.2	3543.6	3532.4	3545.8
22.5°	3626.0	3590.4	3505.7	3401.0	3271.9	3189.5	3262.9	3260.7	3278.5
25°	3151.6	3124.9	3067.0	2977.9	2864.3	2813.0	2935.5	2935.5	2982.3
27.5°	2628.2	2601.5	2561.4	2485.6	2392.1	2376.5	2556.9	2579.2	2630.4
30°	2093.6	2075.8	2053.5	1984.5	1906.5	1935.5	2185.0	2222.8	2280.7
32.5°	1617.0	1605.9	1599.2	1536.8	1467.8	1563.5	1848.6	1897.6	1955.5
35°	1220.5	1196.0	1213.9	1167.1	1104.7	1225.0	1539.0	1581.4	1628.1
37.5°	899.8	882.0	897.6	864.2	808.5	939.9	1236.1	1262.9	1294.0
40°	645.9	630.3	643.7	623.6	579.1	701.6	968.9	997.8	1011.2
42.5°	458.8	432.1	445.5	429.9	407.6	527.9	761.7	788.5	792.9
45°	289.5	280.6	289.5	280.6	276.2	392.0	601.4	625.9	637.0
47.5°	176.0	164.8	164.8	160.4	164.8	289.5	496.7	532.3	550.1
50°	100.2	95.8	93.5	91.3	100.2	227.2	429.9	470.0	492.2
52.5°	66.8	64.6	64.6	62.4	73.5	191.5	387.5	423.2	445.5
55°	49.0	46.8	46.8	46.8	57.9	164.8	356.4	385.3	405.4
57.5°	37.9	37.9	37.9	35.6	49.0	140.3	318.5	334.1	349.7
60°	31.2	29.0	29.0	29.0	40.1	120.3	274.0	280.6	289.5
62.5°	24.5	24.5	24.5	24.5	33.4	106.9	236.1	236.1	240.5
65°	22.3	20.0	20.0	20.0	29.0	93.5	198.2	196.0	200.5
67.5°	17.8	17.8	17.8	17.8	24.5	80.2	162.6	160.4	164.8
70°	15.6	15.6	15.6	15.6	20.0	66.8	131.4	129.2	133.6
72.5°	13.4	13.4	13.4	13.4	17.8	55.7	104.7	104.7	106.9
75°	11.1	11.1	11.1	11.1	15.6	42.3	84.6	84.6	86.9
77.5°	8.9	8.9	8.9	8.9	11.1	33.4	64.6	62.4	62.4
80°	4.5	6.7	6.7	6.7	8.9	24.5	46.8	42.3	42.3
82.5°	2.2	4.5	4.5	4.5	8.9	17.8	31.2	29.0	29.0
85°	2.2	2.2	2.2	6.7	8.9	13.4	20.0	20.0	20.0
87.5°	0.0	2.2	4.5	8.9	11.1	11.1	13.4	11.1	11.1
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)