

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: P799802

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799802
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 EU6509035 6LBMDSWGPH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

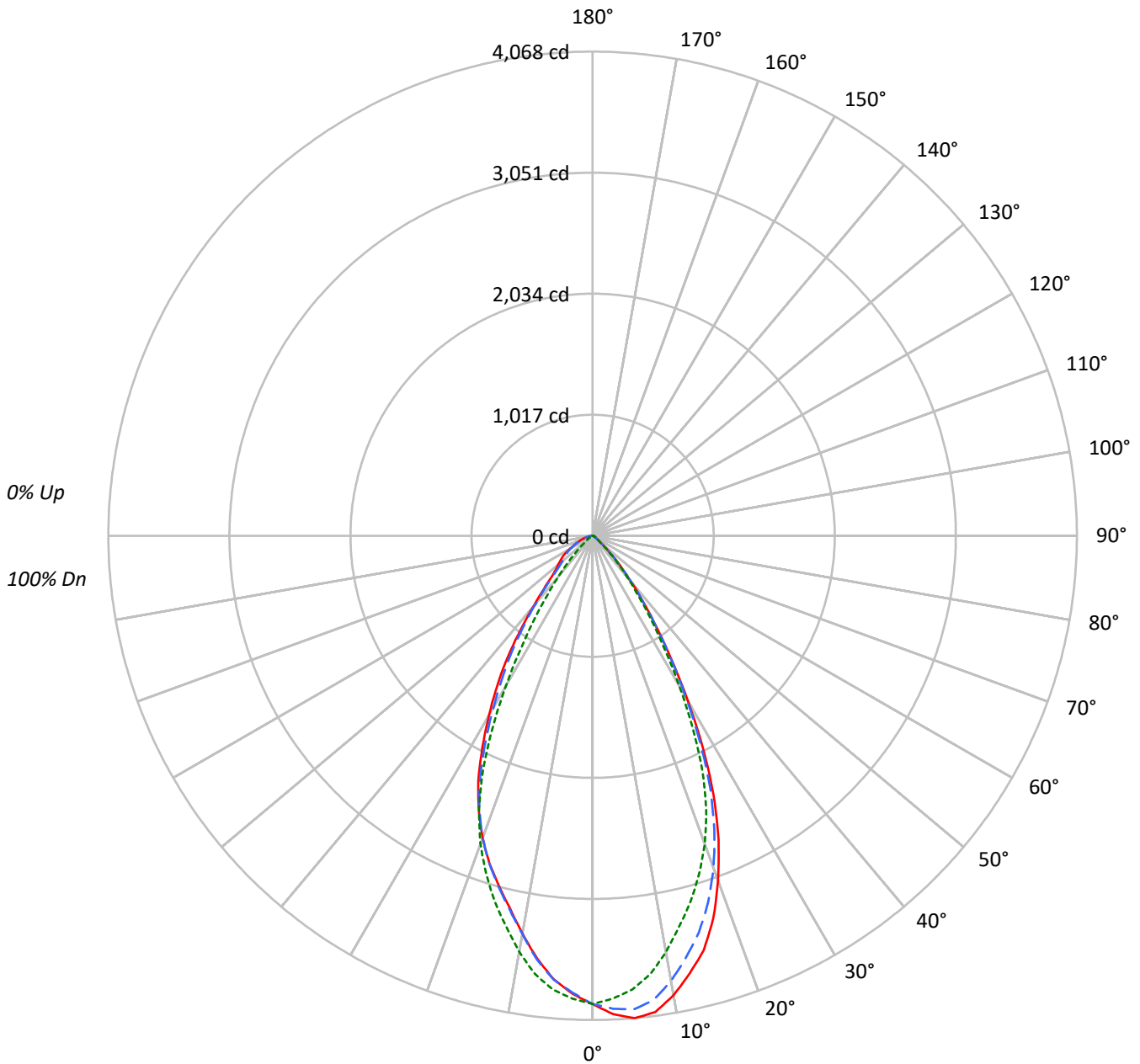
Lumens per Lamp: N/A
Luminaire Lumens: 3387.0 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (A_{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

TEST NUMBER: P799802

CATALOG NUMBER: LD6C50D010 EU6509035 6LBMDSWGPB

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	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	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	215663	215663	215663
5°	223860	210598	205838
10°	218138	197541	188852
15°	204581	180500	172702
20°	179601	160687	157619
25°	145254	132014	137458
30°	100984	91957	110011
35°	62238	56336	83025
40°	35223	31581	55139
45°	17103	16312	37632
50°	6516	6516	31990
55°	3565	4215	29523
60°	2609	3344	24187
65°	2205	2867	19808
70°	1907	2452	16317
75°	1800	2521	14022
80°	1073	2147	10165
85°	1069	4277	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.1	10.6
10°-20°	905.2	26.7
20°-30°	1019.0	30.1
30°-40°	631.0	18.6
40°-50°	251.3	7.4
50°-60°	114.4	3.4
60°-70°	65.8	1.9
70°-80°	31.2	0.9
80°-90°	9.1	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°	2284.3	67.4
0°-40°	2915.2	86.1
0°-60°	3280.9	96.9
0°-90°	3387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3387.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3934	3934	3934	3934	3934	
5°	4068	3993	3827	3744	3740	383
15°	3605	3449	3180	3051	3043	997
25°	2401	2337	2182	2237	2272	1079
35°	930	925	842	1173	1241	598
45°	221	221	210	458	485	187
55°	37	36	44	272	309	37
65°	17	15	22	151	153	17
75°	8	8	12	64	66	9
85°	2	2	7	15	15	1
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°	3934.0	3934.0	3934.0	3934.0	3934.0	3934.0	3934.0	3934.0	3934.0
2.5°	4023.9	3986.6	3978.1	3945.8	3891.5	3861.0	3842.3	3828.7	3852.5
5°	4068.0	4027.3	3993.4	3927.2	3827.0	3771.0	3743.9	3721.8	3740.5
7.5°	4035.8	3978.1	3932.3	3840.6	3713.3	3626.8	3589.4	3564.0	3581.0
10°	3918.7	3849.1	3796.5	3687.9	3548.7	3445.2	3399.4	3375.6	3392.6
12.5°	3765.9	3708.2	3628.5	3509.7	3360.3	3251.7	3217.8	3199.1	3205.9
15°	3604.7	3536.8	3448.6	3329.8	3180.4	3071.8	3051.4	3039.6	3043.0
17.5°	3370.5	3304.3	3227.9	3112.5	2975.1	2886.8	2886.8	2878.3	2883.4
20°	3078.6	3043.0	2968.3	2871.6	2754.4	2674.7	2700.1	2691.7	2701.8
22.5°	2762.9	2735.8	2671.3	2591.5	2493.1	2430.3	2486.3	2484.6	2498.2
25°	2401.4	2381.1	2337.0	2269.1	2182.5	2143.5	2236.8	2236.8	2272.5
27.5°	2002.6	1982.3	1951.7	1894.0	1822.7	1810.8	1948.3	1965.3	2004.3
30°	1595.3	1581.7	1564.8	1512.1	1452.7	1474.8	1664.9	1693.7	1737.9
32.5°	1232.1	1223.6	1218.5	1171.0	1118.4	1191.4	1408.6	1446.0	1490.1
35°	930.0	911.4	924.9	889.3	841.8	933.4	1172.7	1205.0	1240.6
37.5°	685.6	672.1	683.9	658.5	616.1	716.2	941.9	962.3	986.0
40°	492.2	480.3	490.5	475.2	441.3	534.6	738.3	760.3	770.5
42.5°	349.6	329.2	339.4	327.5	310.6	402.2	580.4	600.8	604.2
45°	220.6	213.8	220.6	213.8	210.4	298.7	458.2	476.9	485.4
47.5°	134.1	125.6	125.6	122.2	125.6	220.6	378.5	405.6	419.2
50°	76.4	73.0	71.3	69.6	76.4	173.1	327.5	358.1	375.1
52.5°	50.9	49.2	49.2	47.5	56.0	146.0	295.3	322.5	339.4
55°	37.3	35.6	35.6	35.6	44.1	125.6	271.5	293.6	308.9
57.5°	28.9	28.9	28.9	27.2	37.3	106.9	242.7	254.6	266.5
60°	23.8	22.1	22.1	22.1	30.5	91.6	208.7	213.8	220.6
62.5°	18.7	18.7	18.7	18.7	25.5	81.5	179.9	179.9	183.3
65°	17.0	15.3	15.3	15.3	22.1	71.3	151.0	149.3	152.7
67.5°	13.6	13.6	13.6	13.6	18.7	61.1	123.9	122.2	125.6
70°	11.9	11.9	11.9	11.9	15.3	50.9	100.1	98.4	101.8
72.5°	10.2	10.2	10.2	10.2	13.6	42.4	79.8	79.8	81.5
75°	8.5	8.5	8.5	8.5	11.9	32.2	64.5	64.5	66.2
77.5°	6.8	6.8	6.8	6.8	8.5	25.5	49.2	47.5	47.5
80°	3.4	5.1	5.1	5.1	6.8	18.7	35.6	32.2	32.2
82.5°	1.7	3.4	3.4	3.4	6.8	13.6	23.8	22.1	22.1
85°	1.7	1.7	1.7	5.1	6.8	10.2	15.3	15.3	15.3
87.5°	0.0	1.7	3.4	6.8	8.5	8.5	10.2	8.5	8.5
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)