

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: P799698

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799698
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: LD6C40D010 EU6409040 6LBMDSWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

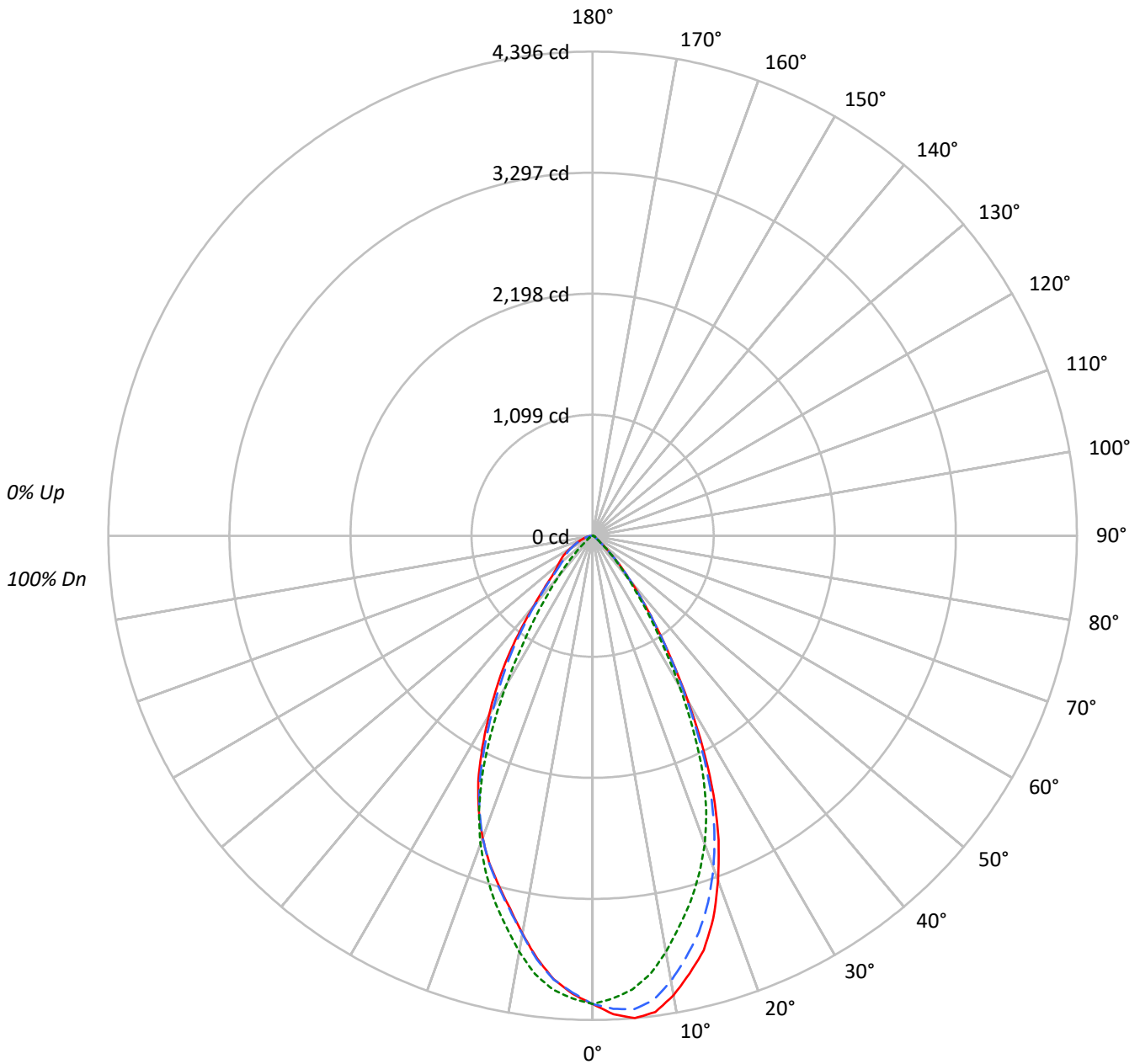
Lumens per Lamp: N/A
Luminaire Lumens: 3660.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59	59	59	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52	52	52	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49	49	49	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	233041	233041	233041
5°	241905	227575	222430
10°	235717	213462	204071
15°	221074	195052	186619
20°	194074	173644	170325
25°	156965	142653	148533
30°	109124	99370	118873
35°	67258	60873	89717
40°	38057	34121	59583
45°	18483	17630	40663
50°	7036	7036	34566
55°	3852	4559	31903
60°	2818	3618	26138
65°	2374	3087	21416
70°	2052	2645	17631
75°	1949	2711	15144
80°	1168	2305	10986
85°	1132	4592	10378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.2	10.6
10°-20°	978.1	26.7
20°-30°	1101.1	30.1
30°-40°	681.8	18.6
40°-50°	271.5	7.4
50°-60°	123.6	3.4
60°-70°	71.1	1.9
70°-80°	33.7	0.9
80°-90°	9.8	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°	2468.4	67.4
0°-40°	3150.2	86.1
0°-60°	3545.3	96.9
0°-90°	3660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3660.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4251	4251	4251	4251	4251	
5°	4396	4315	4136	4046	4042	414
15°	3895	3726	3437	3297	3288	1078
25°	2595	2525	2358	2417	2456	1166
35°	1005	1000	910	1267	1341	646
45°	238	238	227	495	524	202
55°	40	38	48	293	334	40
65°	18	16	24	163	165	18
75°	9	9	13	70	72	9
85°	2	2	7	16	16	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°	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0	4251.0
2.5°	4348.2	4307.9	4298.7	4263.9	4205.2	4172.2	4152.0	4137.3	4163.0
5°	4395.9	4351.9	4315.2	4243.7	4135.5	4075.0	4045.6	4021.8	4042.0
7.5°	4361.1	4298.7	4249.2	4150.2	4012.6	3919.1	3878.8	3851.2	3869.6
10°	4234.5	4159.3	4102.5	3985.1	3834.7	3722.9	3673.4	3647.7	3666.0
12.5°	4069.5	4007.1	3920.9	3792.6	3631.2	3513.8	3477.1	3457.0	3464.3
15°	3895.3	3821.9	3726.5	3598.2	3436.8	3319.4	3297.4	3284.6	3288.2
17.5°	3642.2	3570.7	3488.1	3363.4	3214.9	3119.5	3119.5	3110.3	3115.8
20°	3326.7	3288.2	3207.5	3103.0	2976.5	2890.3	2917.8	2908.6	2919.6
22.5°	2985.6	2956.3	2886.6	2800.4	2694.0	2626.2	2686.7	2684.9	2699.5
25°	2595.0	2573.0	2525.3	2452.0	2358.4	2316.3	2417.1	2417.1	2455.6
27.5°	2164.0	2142.0	2109.0	2046.7	1969.6	1956.8	2105.3	2123.7	2165.9
30°	1723.9	1709.2	1690.9	1634.0	1569.8	1593.7	1799.1	1830.3	1877.9
32.5°	1331.4	1322.3	1316.8	1265.4	1208.6	1287.4	1522.2	1562.5	1610.2
35°	1005.0	984.8	999.5	961.0	909.6	1008.7	1267.2	1302.1	1340.6
37.5°	740.9	726.2	739.1	711.6	665.7	773.9	1017.8	1039.8	1065.5
40°	531.8	519.0	530.0	513.5	476.8	577.7	797.8	821.6	832.6
42.5°	377.8	355.8	366.8	353.9	335.6	434.6	627.2	649.2	652.9
45°	238.4	231.1	238.4	231.1	227.4	322.8	495.2	515.3	524.5
47.5°	144.9	135.7	135.7	132.0	135.7	238.4	409.0	438.3	453.0
50°	82.5	78.9	77.0	75.2	82.5	187.1	353.9	387.0	405.3
52.5°	55.0	53.2	53.2	51.3	60.5	157.7	319.1	348.4	366.8
55°	40.3	38.5	38.5	38.5	47.7	135.7	293.4	317.3	333.8
57.5°	31.2	31.2	31.2	29.3	40.3	115.5	262.3	275.1	287.9
60°	25.7	23.8	23.8	23.8	33.0	99.0	225.6	231.1	238.4
62.5°	20.2	20.2	20.2	20.2	27.5	88.0	194.4	194.4	198.1
65°	18.3	16.5	16.5	16.5	23.8	77.0	163.2	161.4	165.1
67.5°	14.7	14.7	14.7	14.7	20.2	66.0	133.9	132.0	135.7
70°	12.8	12.8	12.8	12.8	16.5	55.0	108.2	106.4	110.0
72.5°	11.0	11.0	11.0	11.0	14.7	45.8	86.2	86.2	88.0
75°	9.2	9.2	9.2	9.2	12.8	34.8	69.7	69.7	71.5
77.5°	7.3	7.3	7.3	7.3	9.2	27.5	53.2	51.3	51.3
80°	3.7	5.5	5.5	5.5	7.3	20.2	38.5	34.8	34.8
82.5°	1.8	3.7	3.7	3.7	7.3	14.7	25.7	23.8	23.8
85°	1.8	1.8	1.8	5.5	7.3	11.0	16.5	16.5	16.5
87.5°	0.0	1.8	3.7	7.3	9.2	9.2	11.0	9.2	9.2
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)