

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: P799685

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799685
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 EU6409035 6LBMDSWMW
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

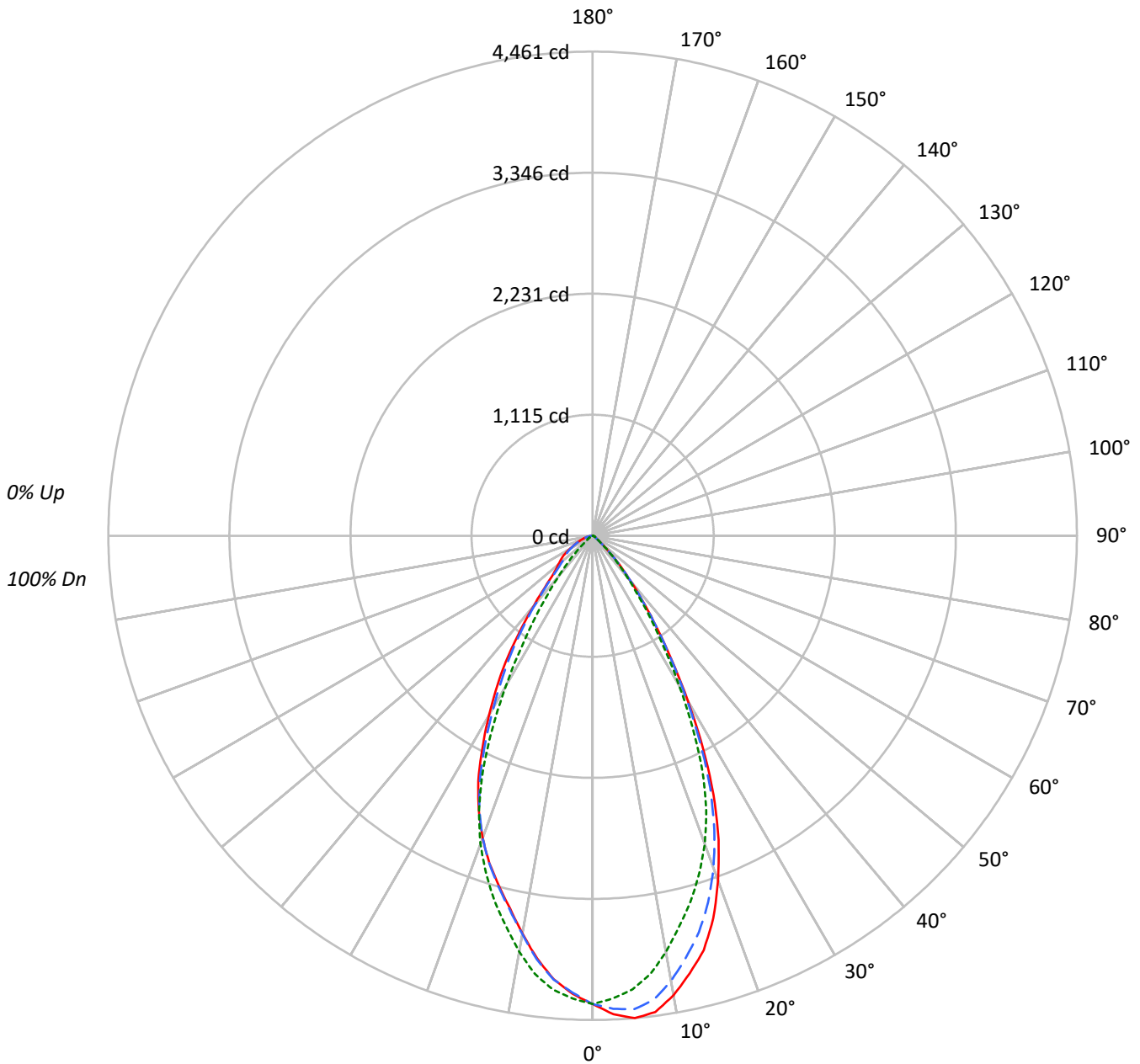
Lumens per Lamp: N/A
Luminaire Lumens: 3714.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P799685

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P799685

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMDSWMW

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				
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°	236483	236483	236483
5°	245476	230932	225709
10°	239196	216613	207083
15°	224332	197930	189371
20°	196939	176205	172839
25°	159281	144758	150728
30°	110732	100838	120626
35°	68248	61770	91042
40°	38622	34629	60463
45°	18754	17893	41260
50°	7138	7138	35078
55°	3909	4626	32372
60°	2862	3673	26522
65°	2413	3139	21727
70°	2084	2677	17904
75°	1970	2754	15377
80°	1168	2336	11176
85°	1195	4655	10504



TEST NUMBER: P799685

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.9	10.6
10°-20°	992.6	26.7
20°-30°	1117.3	30.1
30°-40°	691.9	18.6
40°-50°	275.5	7.4
50°-60°	125.4	3.4
60°-70°	72.1	1.9
70°-80°	34.2	0.9
80°-90°	10.0	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°	2504.8	67.4
0°-40°	3196.7	86.1
0°-60°	3597.7	96.9
0°-90°	3714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4314	4314	4314	4314	4314	
5°	4461	4379	4196	4105	4102	420
15°	3953	3782	3488	3346	3337	1094
25°	2633	2563	2393	2453	2492	1184
35°	1020	1014	923	1286	1360	655
45°	242	242	231	502	532	205
55°	41	39	48	298	339	41
65°	19	17	24	166	168	18
75°	9	9	13	71	73	10
85°	2	2	7	17	17	2
90°	0	0	0	0	0	



TEST NUMBER: P799685

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMDSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8
2.5°	4412.4	4371.5	4362.1	4326.8	4267.2	4233.7	4213.3	4198.4	4224.4
5°	4460.8	4416.1	4378.9	4306.3	4196.5	4135.1	4105.3	4081.1	4101.6
7.5°	4425.4	4362.1	4311.9	4211.4	4071.8	3976.9	3936.0	3908.1	3926.7
10°	4297.0	4220.7	4163.0	4043.9	3891.3	3777.8	3727.6	3701.5	3720.1
12.5°	4129.5	4066.3	3978.8	3848.5	3684.8	3565.6	3528.4	3508.0	3515.4
15°	3952.7	3878.3	3781.5	3651.3	3487.5	3368.4	3346.1	3333.0	3336.7
17.5°	3695.9	3623.3	3539.6	3413.0	3262.3	3165.5	3165.5	3156.2	3161.8
20°	3375.8	3336.7	3254.9	3148.8	3020.4	2932.9	2960.8	2951.5	2962.7
22.5°	3029.7	2999.9	2929.2	2841.7	2733.8	2664.9	2726.3	2724.5	2739.4
25°	2633.3	2611.0	2562.6	2488.1	2393.2	2350.4	2452.8	2452.8	2491.9
27.5°	2196.0	2173.6	2140.1	2076.9	1998.7	1985.7	2136.4	2155.0	2197.8
30°	1749.3	1734.4	1715.8	1658.1	1593.0	1617.2	1825.6	1857.3	1905.6
32.5°	1351.1	1341.8	1336.2	1284.1	1226.4	1306.4	1544.6	1585.6	1633.9
35°	1019.8	999.3	1014.2	975.2	923.0	1023.5	1285.9	1321.3	1360.4
37.5°	751.8	737.0	750.0	722.1	675.5	785.3	1032.8	1055.2	1081.2
40°	539.7	526.7	537.8	521.1	483.9	586.2	809.5	833.7	844.9
42.5°	383.4	361.0	372.2	359.2	340.6	441.1	636.5	658.8	662.5
45°	241.9	234.5	241.9	234.5	230.8	327.5	502.5	522.9	532.2
47.5°	147.0	137.7	137.7	134.0	137.7	241.9	415.0	444.8	459.7
50°	83.7	80.0	78.2	76.3	83.7	189.8	359.2	392.7	411.3
52.5°	55.8	54.0	54.0	52.1	61.4	160.0	323.8	353.6	372.2
55°	40.9	39.1	39.1	39.1	48.4	137.7	297.8	322.0	338.7
57.5°	31.6	31.6	31.6	29.8	40.9	117.2	266.1	279.1	292.2
60°	26.1	24.2	24.2	24.2	33.5	100.5	228.9	234.5	241.9
62.5°	20.5	20.5	20.5	20.5	27.9	89.3	197.3	197.3	201.0
65°	18.6	16.7	16.7	16.7	24.2	78.2	165.6	163.8	167.5
67.5°	14.9	14.9	14.9	14.9	20.5	67.0	135.9	134.0	137.7
70°	13.0	13.0	13.0	13.0	16.7	55.8	109.8	107.9	111.7
72.5°	11.2	11.2	11.2	11.2	14.9	46.5	87.5	87.5	89.3
75°	9.3	9.3	9.3	9.3	13.0	35.4	70.7	70.7	72.6
77.5°	7.4	7.4	7.4	7.4	9.3	27.9	54.0	52.1	52.1
80°	3.7	5.6	5.6	5.6	7.4	20.5	39.1	35.4	35.4
82.5°	1.9	3.7	3.7	3.7	7.4	14.9	26.1	24.2	24.2
85°	1.9	1.9	1.9	5.6	7.4	11.2	16.7	16.7	16.7
87.5°	0.0	1.9	3.7	7.4	9.3	9.3	11.2	9.3	9.3
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)