

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: P799731

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799731
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: LD6C45D010 EU6459030 6LBMDSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

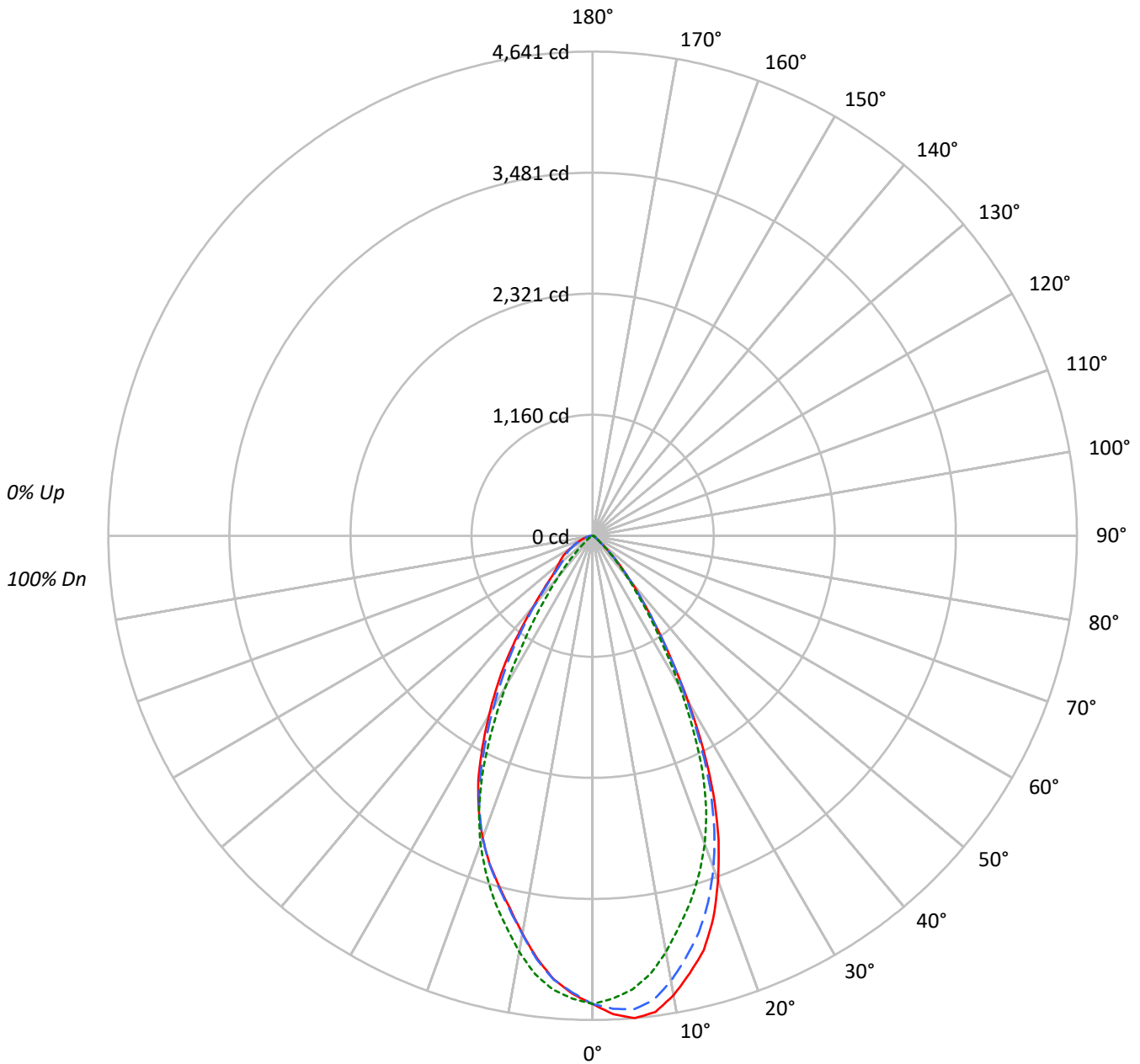
Lumens per Lamp: N/A
Luminaire Lumens: 3864.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P799731

CATALOG NUMBER: LD6C45D010 EU6459030 6LBMDSWH

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°	246033	246033	246033
5°	255387	240259	234828
10°	248860	225363	215449
15°	233395	205921	197022
20°	204896	183323	179816
25°	165711	150607	156813
30°	115208	104909	125500
35°	71005	64266	94716
40°	40182	36025	62904
45°	19514	18614	42927
50°	7428	7428	36493
55°	4072	4807	33681
60°	2971	3826	27596
65°	2516	3269	22609
70°	2180	2789	18625
75°	2055	2881	15992
80°	1231	2431	11618
85°	1195	4843	10944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	10.6
10°-20°	1032.6	26.7
20°-30°	1162.5	30.1
30°-40°	719.8	18.6
40°-50°	286.7	7.4
50°-60°	130.5	3.4
60°-70°	75.0	1.9
70°-80°	35.6	0.9
80°-90°	10.4	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°	2606.0	67.4
0°-40°	3325.8	86.1
0°-60°	3743.0	96.9
0°-90°	3864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3864.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4488	4488	4488	4488	4488	
5°	4641	4556	4366	4271	4267	437
15°	4112	3934	3628	3481	3472	1138
25°	2740	2666	2490	2552	2592	1232
35°	1061	1055	960	1338	1415	682
45°	252	252	240	523	554	213
55°	43	41	50	310	352	42
65°	19	17	25	172	174	19
75°	10	10	14	74	76	10
85°	2	2	8	17	17	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°	4488.0	4488.0	4488.0	4488.0	4488.0	4488.0	4488.0	4488.0	4488.0
2.5°	4590.6	4548.0	4538.3	4501.5	4439.6	4404.7	4383.4	4367.9	4395.1
5°	4640.9	4594.5	4555.8	4480.2	4366.0	4302.1	4271.1	4246.0	4267.3
7.5°	4604.2	4538.3	4486.1	4381.5	4236.3	4137.5	4094.9	4065.9	4085.3
10°	4470.6	4391.2	4331.2	4207.2	4048.5	3930.4	3878.1	3851.0	3870.4
12.5°	4296.3	4230.5	4139.5	4004.0	3833.6	3709.7	3670.9	3649.6	3657.4
15°	4112.4	4034.9	3934.2	3798.7	3628.3	3504.4	3481.2	3467.6	3471.5
17.5°	3845.2	3769.7	3682.5	3550.9	3394.1	3293.4	3293.4	3283.7	3289.5
20°	3512.2	3471.5	3386.3	3276.0	3142.4	3051.4	3080.4	3070.7	3082.3
22.5°	3152.0	3121.1	3047.5	2956.5	2844.2	2772.6	2836.5	2834.5	2850.0
25°	2739.6	2716.4	2666.1	2588.6	2489.9	2445.4	2551.8	2551.8	2592.5
27.5°	2284.7	2261.4	2226.6	2160.7	2079.4	2065.9	2222.7	2242.1	2286.6
30°	1820.0	1804.5	1785.1	1725.1	1657.3	1682.5	1899.4	1932.3	1982.6
32.5°	1405.6	1396.0	1390.2	1335.9	1275.9	1359.2	1607.0	1649.6	1699.9
35°	1061.0	1039.7	1055.2	1014.5	960.3	1064.9	1337.9	1374.7	1415.3
37.5°	782.2	766.7	780.3	751.2	702.8	817.1	1074.6	1097.8	1124.9
40°	561.5	547.9	559.5	542.1	503.4	609.9	842.2	867.4	879.0
42.5°	398.8	375.6	387.2	373.7	354.3	458.9	662.2	685.4	689.3
45°	251.7	244.0	251.7	244.0	240.1	340.8	522.8	544.1	553.7
47.5°	153.0	143.3	143.3	139.4	143.3	251.7	431.8	462.7	478.2
50°	87.1	83.3	81.3	79.4	87.1	197.5	373.7	408.5	427.9
52.5°	58.1	56.1	56.1	54.2	63.9	166.5	336.9	367.9	387.2
55°	42.6	40.7	40.7	40.7	50.3	143.3	309.8	335.0	352.4
57.5°	32.9	32.9	32.9	31.0	42.6	122.0	276.9	290.4	304.0
60°	27.1	25.2	25.2	25.2	34.9	104.6	238.1	244.0	251.7
62.5°	21.3	21.3	21.3	21.3	29.0	92.9	205.2	205.2	209.1
65°	19.4	17.4	17.4	17.4	25.2	81.3	172.3	170.4	174.3
67.5°	15.5	15.5	15.5	15.5	21.3	69.7	141.3	139.4	143.3
70°	13.6	13.6	13.6	13.6	17.4	58.1	114.2	112.3	116.2
72.5°	11.6	11.6	11.6	11.6	15.5	48.4	91.0	91.0	92.9
75°	9.7	9.7	9.7	9.7	13.6	36.8	73.6	73.6	75.5
77.5°	7.7	7.7	7.7	7.7	9.7	29.0	56.1	54.2	54.2
80°	3.9	5.8	5.8	5.8	7.7	21.3	40.7	36.8	36.8
82.5°	1.9	3.9	3.9	3.9	7.7	15.5	27.1	25.2	25.2
85°	1.9	1.9	1.9	5.8	7.7	11.6	17.4	17.4	17.4
87.5°	0.0	1.9	3.9	7.7	9.7	9.7	11.6	9.7	9.7
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)