

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: P247424

Luminaire Tested: **LD8B100D010 ER8B1009727 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B1009727 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7873.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

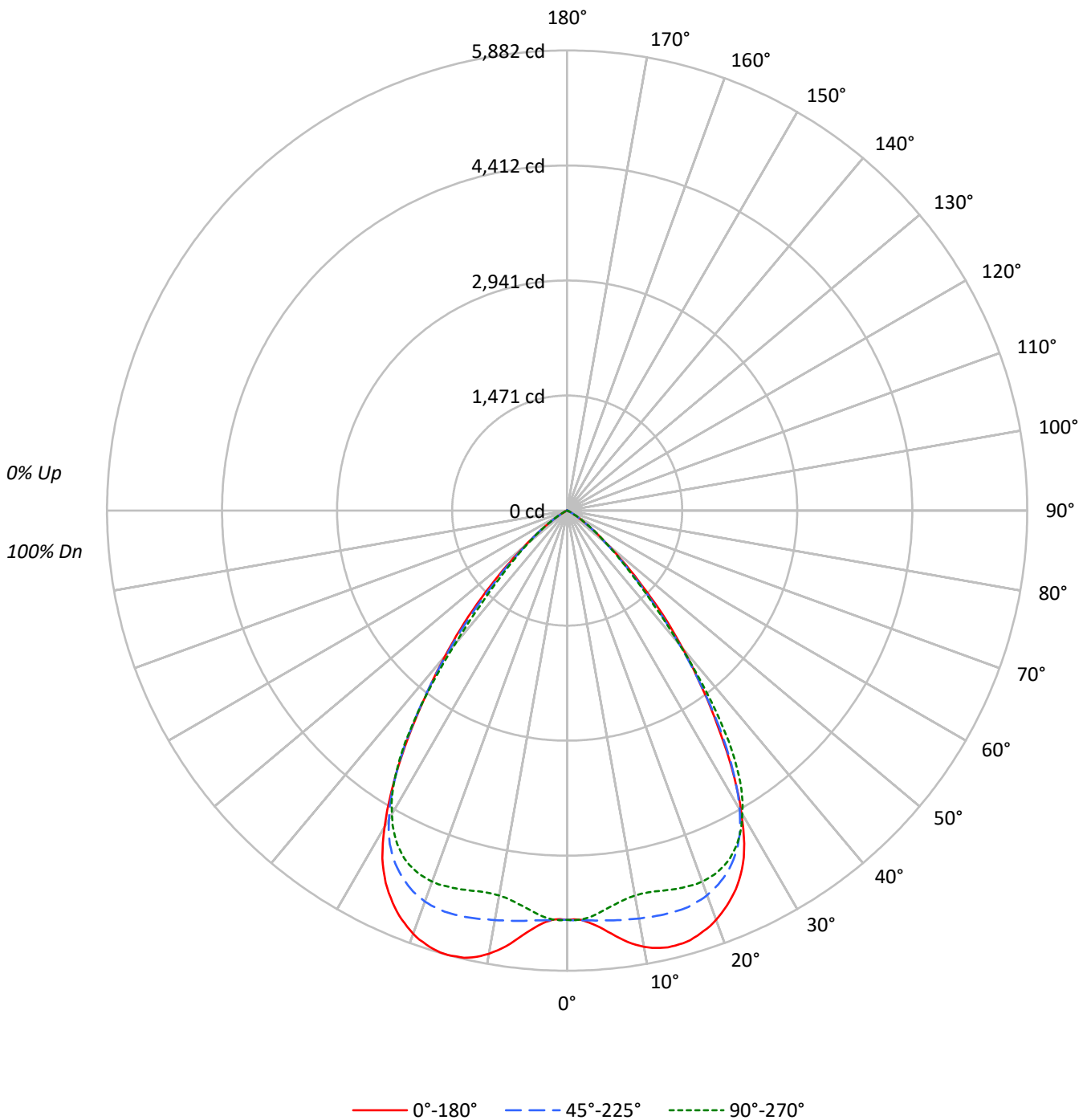
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247424

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247424

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBW0WH

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	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	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P247424

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.4	6.4
10°-20°	1517.6	19.3
20°-30°	2309.9	29.3
30°-40°	2149.7	27.3
40°-50°	1046.2	13.3
50°-60°	298.1	3.8
60°-70°	39.0	0.5
70°-80°	6.2	0.1
80°-90°	1.9	0.0
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°	4332.0	55.0
0°-40°	6481.7	82.3
0°-60°	7826.0	99.4
0°-90°	7873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5233	5233	5233	5233	5233	
5°	5373	5255	5140	5260	5382	523
15°	5725	5309	5020	5360	5882	1611
25°	5207	4980	4913	5089	5393	2363
35°	3355	3401	3606	3568	3541	2086
45°	1352	1252	1205	1349	1470	1068
55°	304	304	316	309	304	299
65°	20	24	27	24	22	38
75°	0	2	7	2	0	4
85°	0	2	2	4	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247424

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5233.2	5233.2	5233.2	5233.2	5233.2	5233.2	5233.2	5233.2	5233.2
1°	5226.5	5233.2	5237.7	5235.5	5237.7	5235.5	5231.0	5222.1	5222.1
2°	5235.5	5244.3	5242.1	5237.7	5231.0	5231.0	5244.3	5226.5	5231.0
3°	5271.0	5271.0	5244.3	5219.9	5210.9	5219.9	5242.1	5255.4	5266.6
4°	5315.4	5306.6	5253.2	5197.7	5179.8	5202.1	5251.0	5293.2	5315.4
5°	5373.3	5346.6	5255.4	5171.0	5139.8	5173.2	5259.9	5339.9	5382.2
6°	5440.0	5399.9	5268.8	5142.0	5102.1	5148.7	5273.3	5395.5	5459.9
7°	5506.7	5442.2	5275.5	5119.8	5068.7	5133.2	5284.3	5457.7	5542.2
8°	5568.9	5482.2	5282.1	5099.9	5037.5	5104.3	5293.2	5513.3	5624.5
9°	5620.1	5520.0	5286.5	5084.3	5010.9	5086.5	5304.4	5562.2	5693.4
10°	5662.3	5548.9	5295.5	5075.3	4995.4	5077.6	5315.4	5604.5	5751.2
11°	5695.7	5568.9	5297.7	5070.9	4988.7	5070.9	5324.3	5646.7	5800.1
12°	5715.6	5586.7	5304.4	5073.1	4990.9	5077.6	5337.7	5664.5	5840.1
13°	5729.0	5593.3	5308.8	5079.8	4995.4	5082.0	5346.6	5680.1	5866.8
14°	5729.0	5589.0	5308.8	5086.5	5008.7	5090.9	5353.2	5691.2	5873.4
15°	5724.6	5586.7	5308.8	5097.6	5019.8	5099.9	5359.9	5697.8	5882.3
16°	5711.2	5573.3	5306.6	5104.3	5030.9	5108.7	5362.1	5693.4	5875.7
17°	5684.5	5566.7	5297.7	5110.9	5042.0	5117.6	5362.1	5682.3	5860.1
18°	5648.9	5520.0	5275.5	5104.3	5044.2	5115.4	5348.8	5653.4	5831.3
19°	5617.8	5493.3	5259.9	5099.9	5053.1	5122.1	5339.9	5633.3	5800.1
20°	5568.9	5448.9	5233.2	5086.5	5046.5	5108.7	5317.7	5597.8	5757.9
21°	5508.9	5397.7	5195.4	5064.3	5035.3	5090.9	5286.5	5548.9	5700.0
22°	5448.9	5339.9	5155.4	5042.0	5017.6	5075.3	5253.2	5497.7	5640.0
23°	5377.7	5275.5	5104.3	5004.2	4990.9	5039.8	5206.6	5442.2	5568.9
24°	5297.7	5199.9	5048.7	4962.0	4957.6	5002.0	5153.2	5368.8	5484.5
25°	5206.6	5119.8	4979.8	4908.6	4913.1	4950.9	5088.7	5286.5	5393.3
26°	5097.6	5017.6	4899.7	4844.2	4850.9	4888.7	5015.3	5191.0	5293.2
27°	4975.3	4901.9	4806.4	4766.3	4784.2	4817.5	4926.5	5086.5	5168.8
28°	4822.0	4764.1	4695.2	4677.5	4699.7	4737.5	4828.6	4959.8	5033.2
29°	4644.1	4613.0	4559.6	4568.5	4599.6	4630.7	4706.3	4801.9	4859.8
30°	4452.9	4439.6	4408.4	4444.0	4479.5	4506.3	4557.4	4621.8	4666.3
31°	4257.3	4241.7	4246.1	4303.9	4357.3	4375.0	4404.0	4435.1	4468.5
32°	4037.2	4032.7	4050.5	4135.0	4203.9	4212.8	4215.0	4223.9	4241.7
33°	3812.7	3806.0	3841.6	3946.1	4023.9	4030.5	4012.7	4003.8	4017.2
34°	3579.2	3579.2	3625.9	3734.9	3826.0	3832.6	3797.1	3792.6	3779.3
35°	3354.7	3348.0	3401.3	3503.6	3605.9	3608.1	3568.1	3543.6	3541.4
37.5°	2798.9	2787.8	2805.6	2858.9	2934.5	2974.6	2970.1	2961.2	2954.5
40°	2292.0	2265.4	2229.8	2207.6	2229.8	2312.1	2383.2	2416.6	2423.1
42.5°	1814.1	1776.3	1700.7	1638.4	1647.4	1723.0	1831.8	1907.4	1945.2
45°	1351.6	1313.8	1251.6	1204.9	1204.9	1258.3	1349.4	1427.2	1469.5
47.5°	964.8	940.4	904.8	884.8	898.1	920.4	971.5	1029.3	1047.1
50°	664.7	658.0	638.1	638.1	651.3	669.2	678.1	707.0	713.6
52.5°	464.7	453.5	455.7	458.0	469.1	471.3	484.6	477.9	489.1
55°	304.5	304.5	304.5	311.2	315.7	315.7	309.0	304.5	304.5
57.5°	193.4	189.0	191.2	195.6	195.6	189.0	177.9	175.6	164.5



TEST NUMBER: P247424

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBW0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	115.6	115.6	117.9	117.9	115.6	108.9	97.8	88.9	84.5
62.5°	60.0	62.2	62.2	73.4	62.2	55.5	51.2	40.0	37.8
65°	20.0	24.4	24.4	24.4	26.7	24.4	24.4	22.2	22.2
67.5°	13.4	15.6	15.6	17.8	17.8	17.8	17.8	22.2	15.6
70°	11.1	11.1	13.4	15.6	15.6	17.8	13.4	11.1	17.8
72.5°	6.7	8.9	6.7	11.1	8.9	8.9	8.9	8.9	8.9
75°	0.0	4.5	2.2	0.0	6.7	4.5	2.2	4.5	0.0
77.5°	2.2	2.2	2.2	2.2	4.5	4.5	4.5	4.5	2.2
80°	2.2	2.2	4.5	2.2	2.2	4.5	0.0	0.0	8.9
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	0.0	2.2	2.2
85°	0.0	2.2	2.2	2.2	2.2	2.2	4.5	4.5	0.0
87.5°	0.0	2.2	0.0	2.2	0.0	0.0	0.0	4.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)