

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: P247412

Luminaire Tested: **LD8B100D010 ER8B100935 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247412
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 ER8B100935 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9642.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

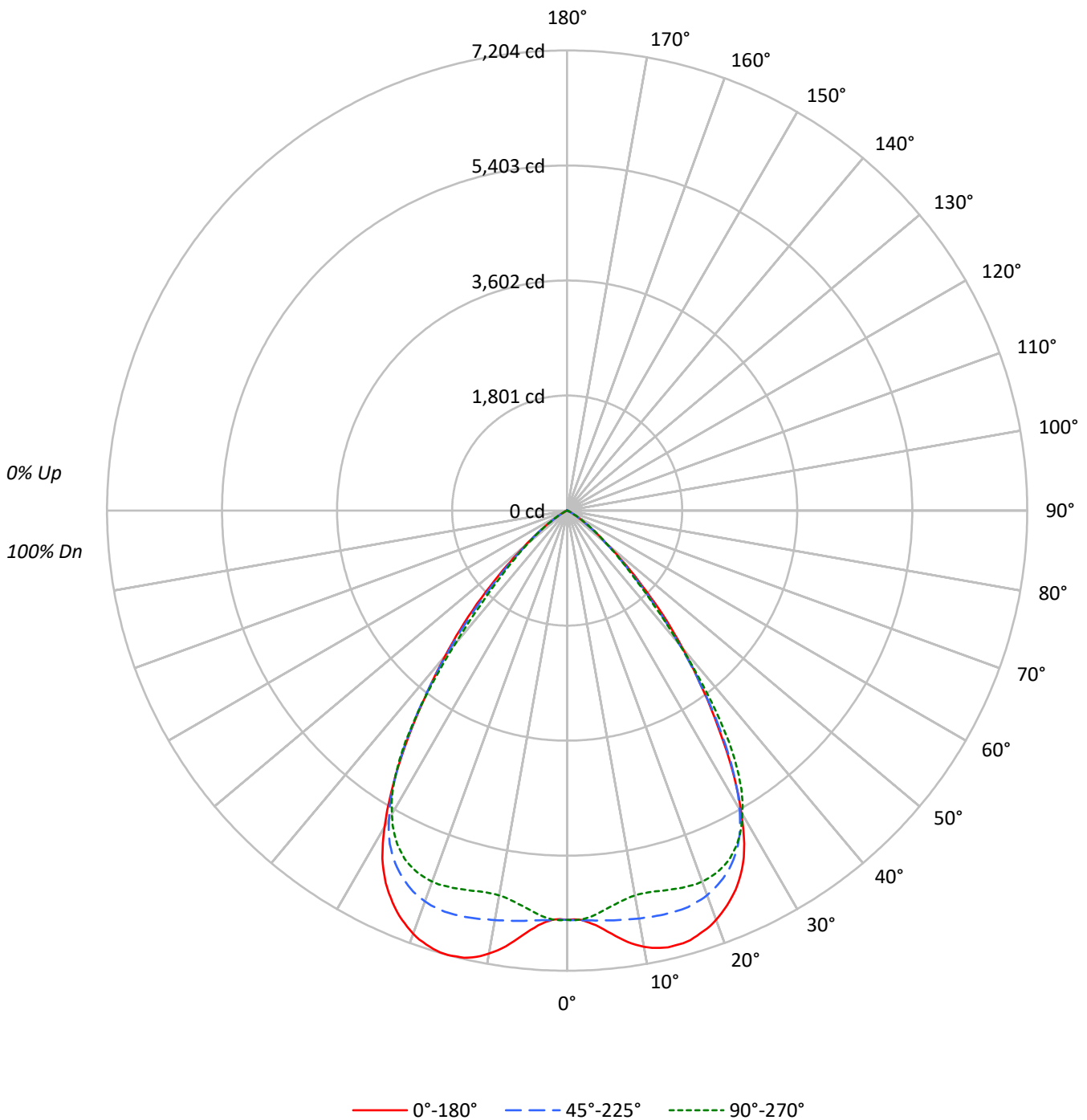
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	197630	197630	197630
5°	203697	194847	204034
10°	217133	191561	220543
15°	223813	196260	229981
20°	223807	202812	231401
25°	216951	204723	224736
30°	194181	195342	203485
35°	154657	166241	163270
40°	112993	109925	119458
45°	72186	64354	78483
50°	39050	38268	41928
55°	20053	20784	20053
60°	8727	8727	6377
65°	1788	2386	1985
70°	1226	1722	1956
75°	0	977	0
80°	479	479	1936
85°	0	955	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.8	6.4
10°-20°	1858.6	19.3
20°-30°	2829.0	29.3
30°-40°	2632.7	27.3
40°-50°	1281.3	13.3
50°-60°	365.1	3.8
60°-70°	47.7	0.5
70°-80°	7.6	0.1
80°-90°	2.3	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°	5305.3	55.0
0°-40°	7938.0	82.3
0°-60°	9584.5	99.4
0°-90°	9642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9642.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6409	6409	6409	6409	6409	
5°	6581	6436	6295	6442	6592	641
15°	7011	6502	6148	6564	7204	1972
25°	6376	6099	6017	6232	6605	2894
35°	4108	4166	4416	4370	4337	2554
45°	1655	1533	1476	1653	1800	1308
55°	373	373	387	378	373	366
65°	24	30	33	30	27	47
75°	0	3	8	3	0	5
85°	0	3	3	6	0	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°	6409.0	6409.0	6409.0	6409.0	6409.0	6409.0	6409.0	6409.0	6409.0
1°	6400.9	6409.0	6414.5	6411.8	6414.5	6411.8	6406.3	6395.5	6395.5
2°	6411.8	6422.7	6419.9	6414.5	6406.3	6406.3	6422.7	6400.9	6406.3
3°	6455.3	6455.3	6422.7	6392.8	6381.8	6392.8	6419.9	6436.3	6449.9
4°	6509.8	6498.9	6433.6	6365.6	6343.7	6370.9	6430.9	6482.6	6509.8
5°	6580.6	6547.9	6436.3	6332.8	6294.7	6335.5	6441.8	6539.7	6591.5
6°	6662.3	6613.2	6452.6	6297.4	6248.4	6305.6	6458.1	6607.8	6686.7
7°	6744.0	6665.0	6460.8	6270.2	6207.5	6286.6	6471.7	6684.0	6787.5
8°	6820.2	6714.0	6469.0	6245.8	6169.4	6251.1	6482.6	6752.1	6888.2
9°	6882.9	6760.3	6474.4	6226.7	6136.8	6229.4	6496.2	6812.0	6972.6
10°	6934.5	6795.7	6485.4	6215.7	6117.8	6218.5	6509.8	6863.8	7043.4
11°	6975.4	6820.2	6488.0	6210.3	6109.6	6210.3	6520.7	6915.5	7103.4
12°	6999.8	6841.9	6496.2	6213.0	6112.3	6218.5	6537.0	6937.3	7152.4
13°	7016.2	6850.1	6501.6	6221.2	6117.8	6223.9	6547.9	6956.4	7185.0
14°	7016.2	6844.7	6501.6	6229.4	6134.1	6234.8	6556.1	6969.9	7193.2
15°	7010.8	6841.9	6501.6	6243.0	6147.7	6245.8	6564.2	6978.1	7204.0
16°	6994.5	6825.6	6498.9	6251.1	6161.3	6256.6	6566.9	6972.6	7196.0
17°	6961.7	6817.5	6488.0	6259.3	6174.9	6267.5	6566.9	6959.1	7176.8
18°	6918.2	6760.3	6460.8	6251.1	6177.6	6264.8	6550.7	6923.6	7141.5
19°	6880.1	6727.6	6441.8	6245.8	6188.5	6273.0	6539.7	6899.1	7103.4
20°	6820.2	6673.2	6409.0	6229.4	6180.4	6256.6	6512.6	6855.6	7051.6
21°	6746.7	6610.5	6362.8	6202.2	6166.8	6234.8	6474.4	6795.7	6980.8
22°	6673.2	6539.7	6313.8	6174.9	6145.0	6215.7	6433.6	6733.0	6907.3
23°	6586.0	6460.8	6251.1	6128.6	6112.3	6172.2	6376.4	6665.0	6820.2
24°	6488.0	6368.2	6183.1	6076.9	6071.5	6126.0	6311.1	6575.1	6716.8
25°	6376.4	6270.2	6098.7	6011.5	6017.0	6063.3	6232.1	6474.4	6605.2
26°	6243.0	6145.0	6000.7	5932.6	5940.8	5987.1	6142.2	6357.4	6482.6
27°	6093.2	6003.4	5886.4	5837.3	5859.1	5899.9	6033.4	6229.4	6330.1
28°	5905.4	5834.6	5750.2	5728.5	5755.7	5802.0	5913.6	6074.2	6164.1
29°	5687.6	5649.5	5584.1	5595.0	5633.1	5671.2	5763.8	5880.9	5951.7
30°	5453.5	5437.1	5399.0	5442.6	5486.1	5518.8	5581.4	5660.3	5714.8
31°	5213.9	5194.8	5200.2	5271.0	5336.3	5358.1	5393.5	5431.6	5472.5
32°	4944.3	4938.8	4960.6	5064.1	5148.5	5159.4	5162.1	5173.0	5194.8
33°	4669.3	4661.1	4704.7	4832.7	4928.0	4936.2	4914.3	4903.4	4919.8
34°	4383.5	4383.5	4440.6	4574.1	4685.7	4693.8	4650.3	4644.8	4628.4
35°	4108.4	4100.3	4165.6	4290.9	4416.1	4418.9	4369.8	4339.9	4337.2
37.5°	3427.8	3414.2	3435.9	3501.3	3593.8	3642.9	3637.4	3626.6	3618.4
40°	2807.0	2774.4	2730.8	2703.6	2730.8	2831.6	2918.6	2959.5	2967.6
42.5°	2221.7	2175.4	2082.9	2006.5	2017.5	2110.1	2243.4	2336.0	2382.3
45°	1655.3	1609.0	1532.8	1475.7	1475.7	1541.0	1652.6	1747.9	1799.7
47.5°	1181.6	1151.7	1108.1	1083.6	1099.9	1127.2	1189.8	1260.6	1282.4
50°	814.0	805.9	781.4	781.4	797.7	819.5	830.4	865.8	874.0
52.5°	569.1	555.4	558.1	560.9	574.4	577.3	593.5	585.3	599.0
55°	373.0	373.0	373.0	381.1	386.6	386.6	378.4	373.0	373.0
57.5°	236.9	231.4	234.1	239.6	239.6	231.4	217.9	215.1	201.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	141.5	141.5	144.3	144.3	141.5	133.4	119.8	108.9	103.4
62.5°	73.5	76.2	76.2	89.9	76.2	68.0	62.6	49.0	46.3
65°	24.5	29.9	29.9	29.9	32.7	29.9	29.9	27.2	27.2
67.5°	16.4	19.1	19.1	21.7	21.7	21.7	21.7	27.2	19.1
70°	13.6	13.6	16.4	19.1	19.1	21.7	16.4	13.6	21.7
72.5°	8.2	10.9	8.2	13.6	10.9	10.9	10.9	10.9	10.9
75°	0.0	5.5	2.7	0.0	8.2	5.5	2.7	5.5	0.0
77.5°	2.7	2.7	2.7	2.7	5.5	5.5	5.5	5.5	2.7
80°	2.7	2.7	5.5	2.7	2.7	5.5	0.0	0.0	10.9
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7
85°	0.0	2.7	2.7	2.7	2.7	2.7	5.5	5.5	0.0
87.5°	0.0	2.7	0.0	2.7	0.0	0.0	0.0	5.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)