

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: P247425

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247425
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: LSR8B120D010 EC8B1209727 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8925.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

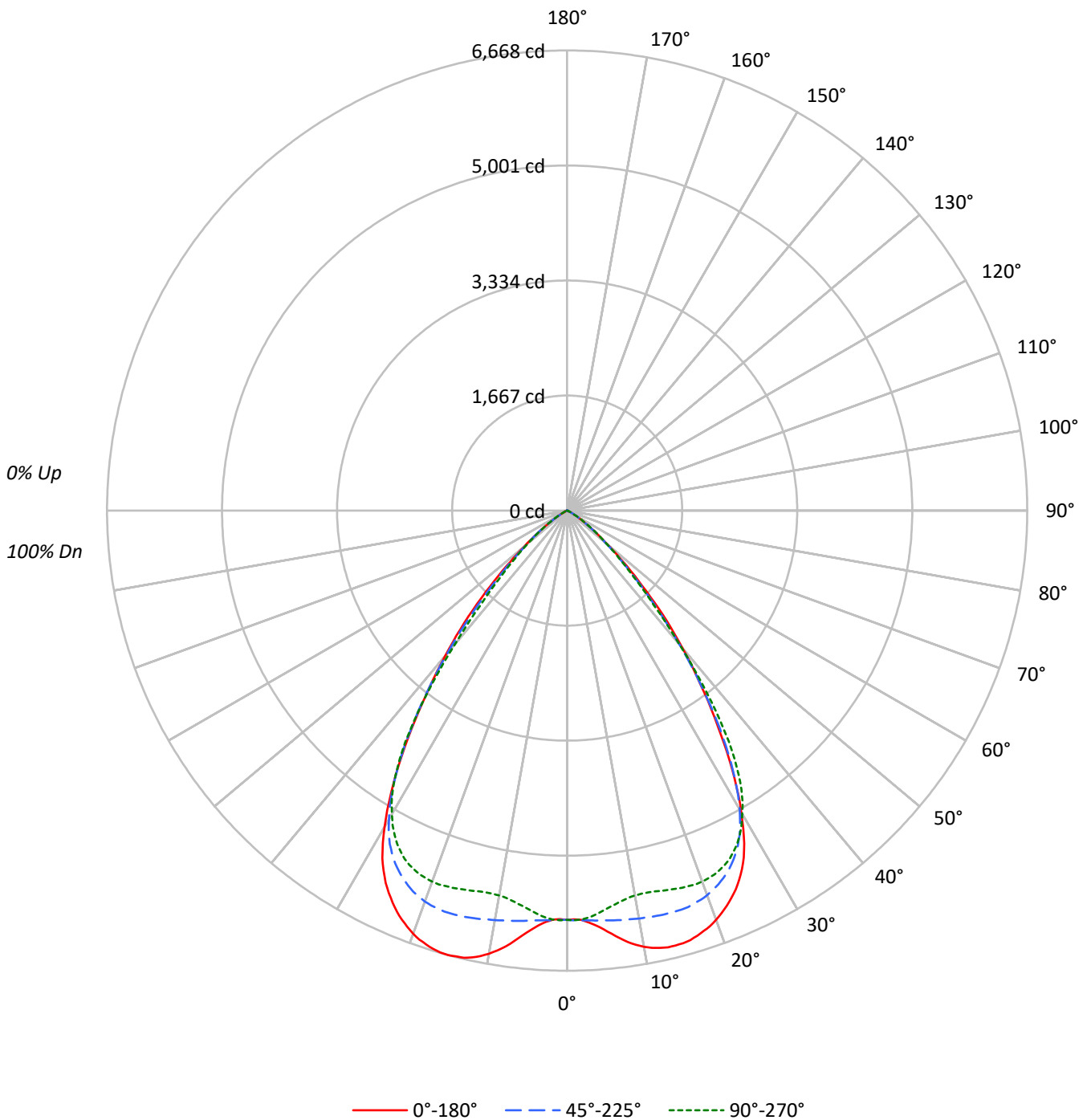
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	67	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.8	6.4
10°-20°	1720.4	19.3
20°-30°	2618.6	29.3
30°-40°	2436.9	27.3
40°-50°	1186.0	13.3
50°-60°	338.0	3.8
60°-70°	44.1	0.5
70°-80°	7.0	0.1
80°-90°	2.1	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°	4910.8	55.0
0°-40°	7347.7	82.3
0°-60°	8871.7	99.4
0°-90°	8925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8925.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5932	5932	5932	5932	5932	
5°	6091	5958	5827	5963	6101	593
15°	6490	6018	5690	6076	6668	1826
25°	5902	5645	5570	5769	6114	2679
35°	3803	3856	4088	4045	4015	2365
45°	1532	1419	1366	1530	1666	1211
55°	345	345	358	350	345	339
65°	23	28	30	28	25	43
75°	0	2	8	2	0	5
85°	0	2	2	5	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°	5932.4	5932.4	5932.4	5932.4	5932.4	5932.4	5932.4	5932.4	5932.4
1°	5924.9	5932.4	5937.5	5935.0	5937.5	5935.0	5930.0	5919.9	5919.9
2°	5935.0	5945.1	5942.5	5937.5	5930.0	5930.0	5945.1	5924.9	5930.0
3°	5975.3	5975.3	5945.1	5917.4	5907.2	5917.4	5942.5	5957.7	5970.3
4°	6025.7	6015.6	5955.2	5892.2	5872.0	5897.2	5952.7	6000.5	6025.7
5°	6091.3	6061.0	5957.7	5861.9	5826.6	5864.4	5962.7	6053.4	6101.3
6°	6166.9	6121.4	5972.8	5829.1	5783.8	5836.7	5977.9	6116.5	6189.5
7°	6242.5	6169.4	5980.4	5803.9	5745.9	5819.1	5990.4	6187.0	6282.8
8°	6313.0	6214.7	5987.9	5781.3	5710.7	5786.3	6000.5	6250.0	6376.0
9°	6371.0	6257.5	5992.9	5763.7	5680.5	5766.2	6013.2	6305.5	6454.1
10°	6418.8	6290.3	6003.1	5753.5	5662.8	5756.1	6025.7	6353.4	6519.7
11°	6456.7	6313.0	6005.6	5748.5	5655.3	5748.5	6035.8	6401.2	6575.2
12°	6479.3	6333.2	6013.2	5751.0	5657.8	5756.1	6050.9	6421.4	6620.5
13°	6494.5	6340.7	6018.1	5758.6	5662.8	5761.1	6061.0	6439.1	6650.7
14°	6494.5	6335.8	6018.1	5766.2	5678.0	5771.1	6068.5	6451.6	6658.3
15°	6489.5	6333.2	6018.1	5778.7	5690.5	5781.3	6076.1	6459.2	6668.3
16°	6474.3	6318.0	6015.6	5786.3	5703.1	5791.4	6078.6	6454.1	6660.9
17°	6444.1	6310.6	6005.6	5793.9	5715.8	5801.4	6078.6	6441.6	6643.1
18°	6403.7	6257.5	5980.4	5786.3	5718.2	5798.9	6063.6	6408.8	6610.4
19°	6368.4	6227.4	5962.7	5781.3	5728.3	5806.5	6053.4	6386.1	6575.2
20°	6313.0	6176.9	5932.4	5766.2	5720.8	5791.4	6028.3	6345.8	6527.2
21°	6245.0	6119.0	5889.6	5741.0	5708.2	5771.1	5992.9	6290.3	6461.7
22°	6176.9	6053.4	5844.3	5715.8	5688.1	5753.5	5955.2	6232.3	6393.6
23°	6096.2	5980.4	5786.3	5672.9	5657.8	5713.3	5902.3	6169.4	6313.0
24°	6005.6	5894.7	5723.3	5625.0	5620.0	5670.4	5841.8	6086.2	6217.3
25°	5902.3	5803.9	5645.2	5564.5	5569.6	5612.4	5768.7	5992.9	6114.0
26°	5778.7	5688.1	5554.4	5491.5	5499.1	5541.9	5685.5	5884.6	6000.5
27°	5640.1	5556.9	5448.6	5403.2	5423.4	5461.2	5584.7	5766.2	5859.4
28°	5466.3	5400.7	5322.6	5302.5	5327.7	5370.5	5473.8	5622.5	5705.7
29°	5264.6	5229.4	5168.9	5178.9	5214.2	5249.5	5335.2	5443.6	5509.1
30°	5047.9	5032.8	4997.5	5037.9	5078.1	5108.4	5166.4	5239.4	5289.8
31°	4826.1	4808.5	4813.5	4879.0	4939.5	4959.6	4992.4	5027.7	5065.6
32°	4576.7	4571.6	4591.7	4687.6	4765.7	4775.7	4778.2	4788.3	4808.5
33°	4322.1	4314.5	4354.9	4473.3	4561.5	4569.1	4548.9	4538.8	4553.9
34°	4057.5	4057.5	4110.4	4233.9	4337.3	4344.7	4304.5	4299.4	4284.2
35°	3802.9	3795.4	3855.8	3971.8	4087.7	4090.3	4044.8	4017.1	4014.6
37.5°	3172.9	3160.3	3180.4	3240.9	3326.6	3372.0	3366.9	3356.9	3349.3
40°	2598.3	2568.1	2527.7	2502.5	2527.7	2621.0	2701.6	2739.5	2746.9
42.5°	2056.5	2013.7	1928.0	1857.3	1867.5	1953.2	2076.6	2162.3	2205.1
45°	1532.2	1489.4	1418.8	1365.9	1365.9	1426.4	1529.7	1617.9	1665.8
47.5°	1093.8	1066.1	1025.7	1003.0	1018.1	1043.3	1101.3	1166.9	1187.0
50°	753.5	745.9	723.3	723.3	738.4	758.6	768.7	801.4	809.0
52.5°	526.8	514.1	516.6	519.2	531.7	534.3	549.4	541.8	554.4
55°	345.2	345.2	345.2	352.8	357.9	357.9	350.3	345.2	345.2
57.5°	219.3	214.2	216.7	221.8	221.8	214.2	201.7	199.1	186.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	131.0	131.0	133.6	133.6	131.0	123.4	110.9	100.8	95.7
62.5°	68.0	70.5	70.5	83.2	70.5	63.0	58.0	45.3	42.8
65°	22.7	27.7	27.7	27.7	30.3	27.7	27.7	25.2	25.2
67.5°	15.1	17.6	17.6	20.1	20.1	20.1	20.1	25.2	17.6
70°	12.6	12.6	15.1	17.6	17.6	20.1	15.1	12.6	20.1
72.5°	7.6	10.1	7.6	12.6	10.1	10.1	10.1	10.1	10.1
75°	0.0	5.1	2.5	0.0	7.6	5.1	2.5	5.1	0.0
77.5°	2.5	2.5	2.5	2.5	5.1	5.1	5.1	5.1	2.5
80°	2.5	2.5	5.1	2.5	2.5	5.1	0.0	0.0	10.1
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	0.0	2.5	2.5
85°	0.0	2.5	2.5	2.5	2.5	2.5	5.1	5.1	0.0
87.5°	0.0	2.5	0.0	2.5	0.0	0.0	0.0	5.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)