

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: **LSR8B100D010 EC8B100927 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: LSR8B100D010 EC8B100927 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: 8857.2 lumens
Efficiency: N/A
Efficacy: 83.3 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

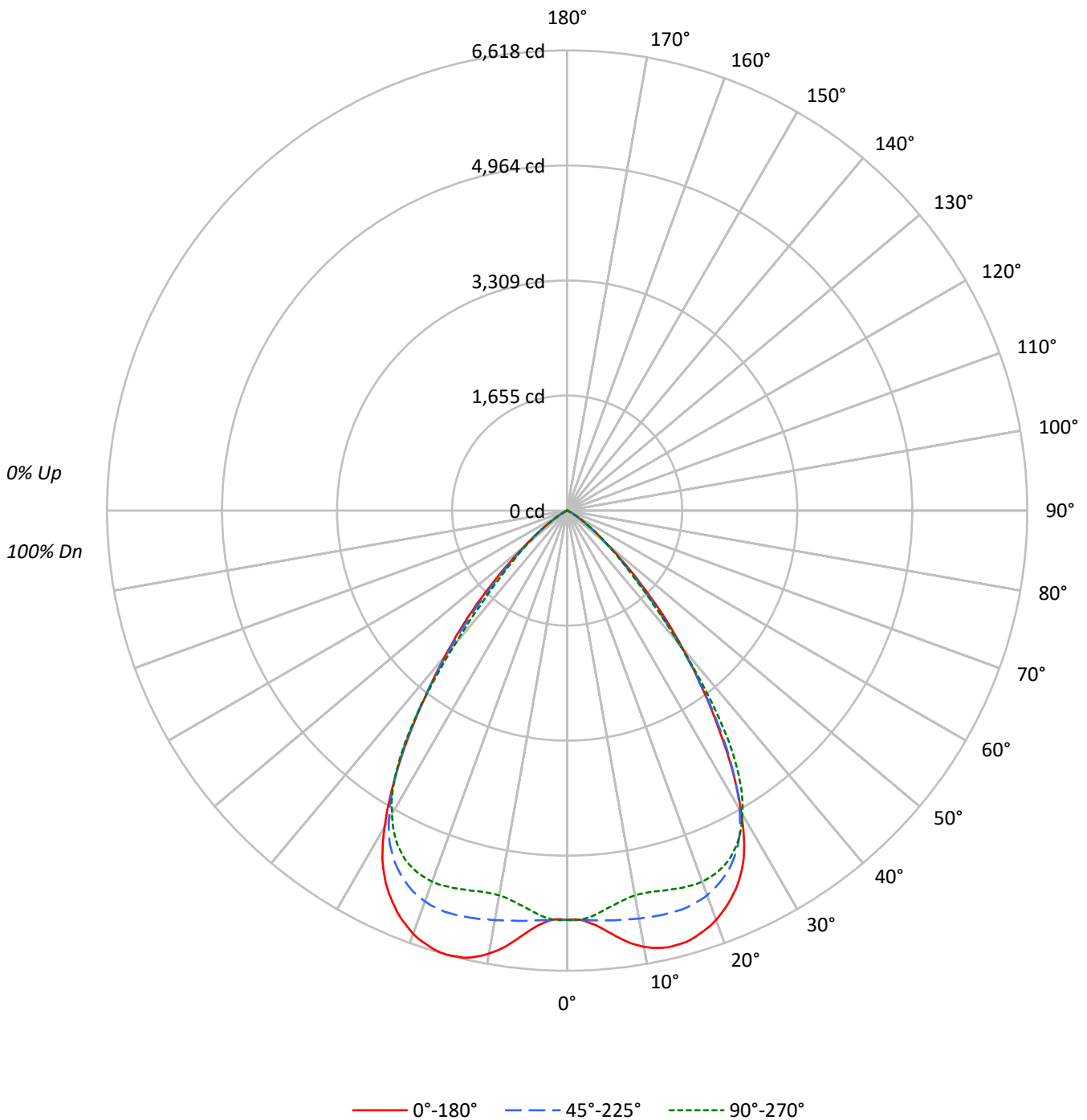
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.5	6.4
10°-20°	1707.3	19.3
20°-30°	2598.7	29.3
30°-40°	2418.4	27.3
40°-50°	1177.0	13.3
50°-60°	335.4	3.8
60°-70°	43.8	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°	4873.5	55.0
0°-40°	7291.9	82.3
0°-60°	8804.3	99.4
0°-90°	8857.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8857.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5887	5887	5887	5887	5887	
5°	6045	5912	5782	5917	6055	589
15°	6440	5972	5647	6030	6618	1812
25°	5857	5602	5527	5725	6068	2659
35°	3774	3826	4057	4014	3984	2347
45°	1521	1408	1356	1518	1653	1202
55°	343	343	355	348	343	336
65°	22	27	30	27	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°	5887.3	5887.3	5887.3	5887.3	5887.3	5887.3	5887.3	5887.3	5887.3
1°	5879.8	5887.3	5892.4	5889.9	5892.4	5889.9	5884.9	5874.9	5874.9
2°	5889.9	5899.8	5897.4	5892.4	5884.9	5884.9	5899.8	5879.8	5884.9
3°	5929.9	5929.9	5899.8	5872.4	5862.3	5872.4	5897.4	5912.3	5924.9
4°	5979.8	5969.9	5909.8	5847.4	5827.3	5852.4	5907.4	5954.8	5979.8
5°	6045.0	6014.9	5912.3	5817.4	5782.3	5819.8	5917.4	6007.4	6055.0
6°	6120.0	6074.9	5927.4	5784.8	5739.9	5792.3	5932.5	6069.9	6142.4
7°	6195.0	6122.5	5934.9	5759.8	5702.3	5774.8	5944.8	6139.9	6235.0
8°	6265.0	6167.5	5942.4	5737.4	5667.2	5742.3	5954.8	6202.5	6327.6
9°	6322.6	6210.0	5947.3	5719.8	5637.3	5722.3	5967.4	6257.5	6405.1
10°	6370.1	6242.5	5957.4	5709.7	5619.8	5712.3	5979.8	6305.1	6470.1
11°	6407.7	6265.0	5959.9	5704.8	5612.3	5704.8	5989.8	6352.5	6525.1
12°	6430.0	6285.0	5967.4	5707.2	5614.8	5712.3	6004.9	6372.6	6570.1
13°	6445.1	6292.5	5972.4	5714.8	5619.8	5717.2	6014.9	6390.1	6600.2
14°	6445.1	6287.6	5972.4	5722.3	5634.8	5727.3	6022.3	6402.6	6607.6
15°	6440.2	6285.0	5972.4	5734.8	5647.3	5737.4	6029.9	6410.0	6617.6
16°	6425.1	6270.0	5969.9	5742.3	5659.8	5747.3	6032.4	6405.1	6610.2
17°	6395.1	6262.5	5959.9	5749.8	5672.2	5757.3	6032.4	6392.6	6592.6
18°	6355.0	6210.0	5934.9	5742.3	5674.7	5754.8	6017.4	6360.1	6560.2
19°	6320.0	6180.0	5917.4	5737.4	5684.7	5762.4	6007.4	6337.5	6525.1
20°	6265.0	6130.0	5887.3	5722.3	5677.3	5747.3	5982.4	6297.5	6477.6
21°	6197.5	6072.4	5844.8	5697.3	5664.7	5727.3	5947.3	6242.5	6412.5
22°	6130.0	6007.4	5799.8	5672.2	5644.8	5709.7	5909.8	6184.9	6345.0
23°	6049.9	5934.9	5742.3	5629.7	5614.8	5669.8	5857.4	6122.5	6265.0
24°	5959.9	5849.9	5679.8	5582.2	5577.3	5627.2	5797.3	6039.9	6170.1
25°	5857.4	5759.8	5602.3	5522.2	5527.2	5569.8	5724.8	5947.3	6067.5
26°	5734.8	5644.8	5512.2	5449.7	5457.3	5499.8	5642.2	5839.9	5954.8
27°	5597.2	5514.6	5407.2	5362.1	5382.2	5419.7	5542.3	5722.3	5814.9
28°	5424.8	5359.6	5282.1	5262.2	5287.2	5329.7	5432.2	5579.8	5662.3
29°	5224.6	5189.6	5129.6	5139.6	5174.6	5209.5	5294.6	5402.1	5467.3
30°	5009.5	4994.6	4959.4	4999.5	5039.4	5069.6	5127.1	5199.5	5249.6
31°	4789.5	4771.9	4776.9	4841.9	4902.0	4921.9	4954.5	4989.5	5027.1
32°	4541.8	4536.8	4556.8	4651.9	4729.4	4739.4	4741.9	4751.9	4771.9
33°	4289.3	4281.8	4321.8	4439.4	4526.9	4534.3	4514.3	4504.3	4519.3
34°	4026.6	4026.6	4079.1	4201.8	4304.2	4311.7	4271.7	4266.7	4251.7
35°	3774.0	3766.5	3826.5	3941.6	4056.6	4059.1	4014.1	3986.6	3984.1
37.5°	3148.8	3136.3	3156.3	3216.3	3301.3	3346.4	3341.4	3331.4	3323.8
40°	2578.5	2548.6	2508.5	2483.5	2508.5	2601.1	2681.1	2718.7	2726.0
42.5°	2040.9	1998.3	1913.3	1843.2	1853.3	1938.4	2060.8	2145.8	2188.4
45°	1520.6	1478.0	1408.0	1355.5	1355.5	1415.6	1518.1	1605.6	1653.2
47.5°	1085.4	1058.0	1017.9	995.4	1010.4	1035.4	1092.9	1158.0	1178.0
50°	747.8	740.2	717.9	717.9	732.7	752.8	762.9	795.4	802.8
52.5°	522.8	510.2	512.7	515.2	527.7	530.2	545.2	537.6	550.2
55°	342.6	342.6	342.6	350.1	355.2	355.2	347.6	342.6	342.6
57.5°	217.6	212.6	215.1	220.0	220.0	212.6	200.1	197.5	185.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	130.0	130.0	132.6	132.6	130.0	122.5	110.0	100.0	95.1
62.5°	67.5	70.0	70.0	82.6	70.0	62.4	57.6	45.0	42.5
65°	22.5	27.4	27.4	27.4	30.0	27.4	27.4	25.0	25.0
67.5°	15.1	17.6	17.6	20.0	20.0	20.0	20.0	25.0	17.6
70°	12.5	12.5	15.1	17.6	17.6	20.0	15.1	12.5	20.0
72.5°	7.5	10.0	7.5	12.5	10.0	10.0	10.0	10.0	10.0
75°	0.0	5.1	2.5	0.0	7.5	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	10.0
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)