

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: P247429

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247429  
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 EC8B1209730 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9442.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 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

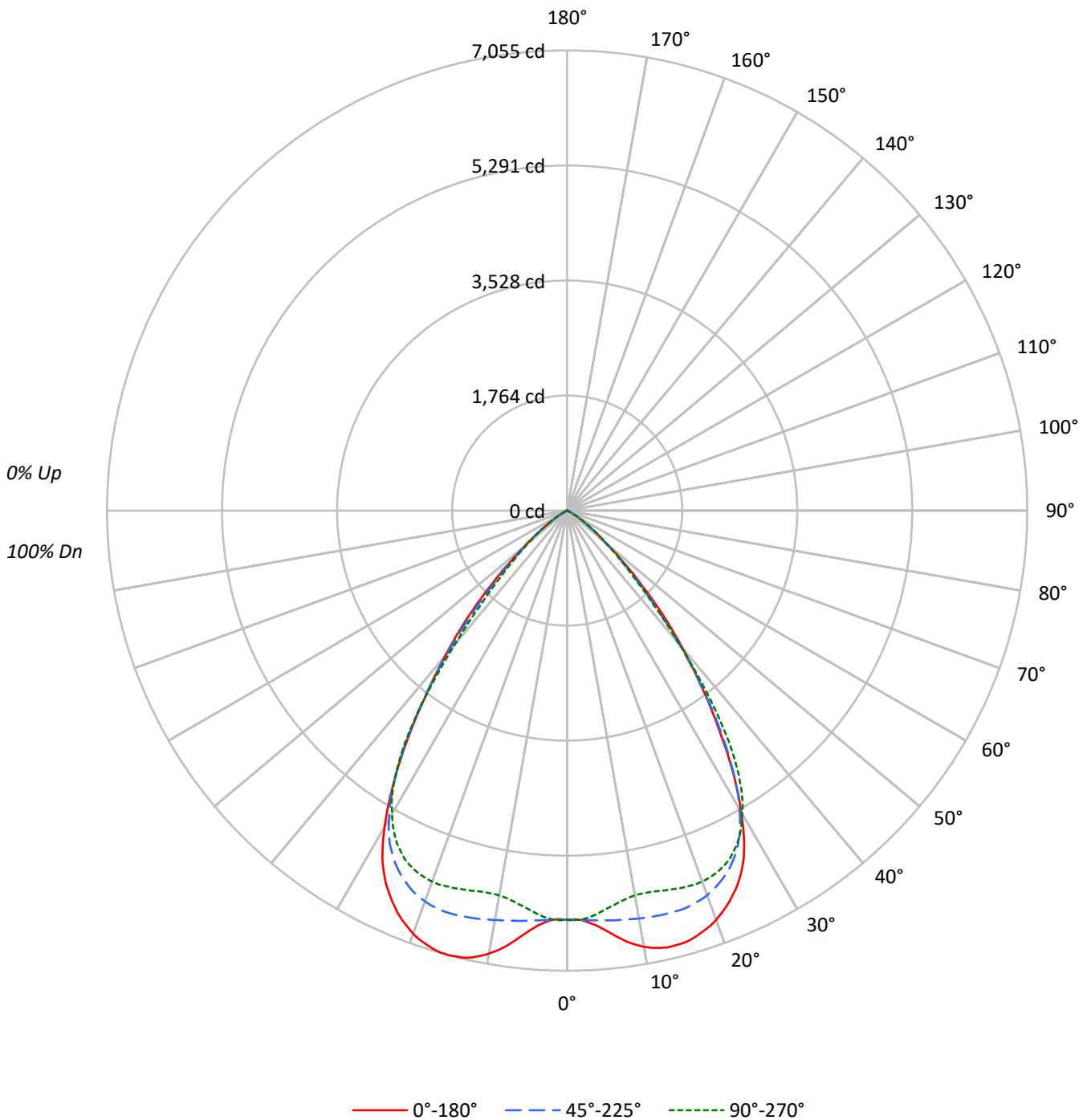
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	604.9	6.4
10°-20°	1820.1	19.3
20°-30°	2770.3	29.3
30°-40°	2578.1	27.3
40°-50°	1254.8	13.3
50°-60°	357.5	3.8
60°-70°	46.7	0.5
70°-80°	7.4	0.1
80°-90°	2.2	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°	5195.3	55.0
0°-40°	7773.4	82.3
0°-60°	9385.7	99.4
0°-90°	9442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9442.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6276	6276	6276	6276	6276	
5°	6444	6303	6164	6308	6455	628
15°	6865	6367	6020	6428	7055	1932
25°	6244	5972	5892	6103	6468	2834
35°	4023	4079	4324	4279	4247	2502
45°	1621	1501	1445	1618	1762	1281
55°	365	365	379	371	365	358
65°	24	29	32	29	27	46
75°	0	3	8	3	0	5
85°	0	3	3	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°	6276.1	6276.1	6276.1	6276.1	6276.1	6276.1	6276.1	6276.1	6276.1
1°	6268.1	6276.1	6281.5	6278.8	6281.5	6278.8	6273.5	6262.8	6262.8
2°	6278.8	6289.5	6286.7	6281.5	6273.5	6273.5	6289.5	6268.1	6273.5
3°	6321.4	6321.4	6289.5	6260.2	6249.4	6260.2	6286.7	6302.8	6316.2
4°	6374.8	6364.1	6300.1	6233.5	6212.1	6238.8	6297.5	6348.1	6374.8
5°	6444.1	6412.1	6302.8	6201.5	6164.2	6204.1	6308.1	6404.1	6454.8
6°	6524.1	6476.0	6318.8	6166.8	6118.8	6174.8	6324.2	6470.8	6548.0
7°	6604.1	6526.7	6326.8	6140.1	6078.8	6156.2	6337.4	6545.4	6646.7
8°	6678.7	6574.7	6334.8	6116.2	6041.5	6121.5	6348.1	6612.0	6745.4
9°	6740.1	6620.0	6340.1	6097.5	6009.5	6100.2	6361.5	6670.7	6828.0
10°	6790.7	6654.7	6350.8	6086.8	5990.9	6089.5	6374.8	6721.4	6897.3
11°	6830.7	6678.7	6353.5	6081.5	5982.9	6081.5	6385.4	6772.0	6956.1
12°	6854.7	6700.0	6361.5	6084.2	5985.5	6089.5	6401.4	6793.4	7004.0
13°	6870.7	6708.0	6366.7	6092.2	5990.9	6094.8	6412.1	6812.1	7035.9
14°	6870.7	6702.8	6366.7	6100.2	6006.9	6105.5	6420.1	6825.4	7044.0
15°	6865.4	6700.0	6366.7	6113.5	6020.2	6116.2	6428.1	6833.4	7054.6
16°	6849.4	6684.0	6364.1	6121.5	6033.5	6126.8	6430.7	6828.0	7046.7
17°	6817.3	6676.1	6353.5	6129.5	6046.8	6137.5	6430.7	6814.7	7027.9
18°	6774.7	6620.0	6326.8	6121.5	6049.5	6134.9	6414.8	6780.0	6993.4
19°	6737.3	6588.1	6308.1	6116.2	6060.1	6142.9	6404.1	6756.0	6956.1
20°	6678.7	6534.8	6276.1	6100.2	6052.2	6126.8	6377.5	6713.4	6905.4
21°	6606.7	6473.4	6230.8	6073.5	6038.8	6105.5	6340.1	6654.7	6836.0
22°	6534.8	6404.1	6182.8	6046.8	6017.5	6086.8	6300.1	6593.4	6764.0
23°	6449.4	6326.8	6121.5	6001.5	5985.5	6044.2	6244.2	6526.7	6678.7
24°	6353.5	6236.2	6054.9	5950.8	5945.6	5998.9	6180.2	6438.7	6577.4
25°	6244.2	6140.1	5972.2	5886.8	5892.2	5937.5	6102.8	6340.1	6468.1
26°	6113.5	6017.5	5876.2	5809.6	5817.6	5862.9	6014.8	6225.5	6348.1
27°	5966.8	5878.8	5764.3	5716.2	5737.6	5777.5	5908.2	6100.2	6198.8
28°	5782.9	5713.6	5630.9	5609.6	5636.3	5681.6	5790.9	5948.2	6036.2
29°	5569.6	5532.3	5468.3	5478.9	5516.2	5553.6	5644.2	5758.9	5828.2
30°	5340.3	5324.3	5287.0	5329.7	5372.3	5404.3	5465.7	5542.9	5596.3
31°	5105.7	5087.1	5092.3	5161.7	5225.7	5246.9	5281.6	5318.9	5359.0
32°	4841.8	4836.4	4857.7	4959.1	5041.7	5052.4	5055.0	5065.7	5087.1
33°	4572.5	4564.5	4607.2	4732.5	4825.8	4833.8	4812.4	4801.7	4817.7
34°	4292.5	4292.5	4348.5	4479.2	4588.5	4596.4	4553.8	4548.4	4532.4
35°	4023.2	4015.2	4079.2	4201.9	4324.5	4327.2	4279.1	4249.8	4247.2
37.5°	3356.7	3343.4	3364.7	3428.6	3519.3	3567.4	3562.0	3551.3	3543.3
40°	2748.8	2716.9	2674.2	2647.5	2674.2	2772.8	2858.1	2898.2	2906.1
42.5°	2175.6	2130.3	2039.6	1964.9	1975.7	2066.3	2196.9	2287.6	2332.9
45°	1621.0	1575.7	1501.0	1445.1	1445.1	1509.1	1618.4	1711.6	1762.3
47.5°	1157.1	1127.8	1085.1	1061.1	1077.1	1103.8	1165.1	1234.5	1255.8
50°	797.2	789.1	765.2	765.2	781.1	802.5	813.2	847.9	855.9
52.5°	557.3	543.9	546.5	549.3	562.5	565.3	581.2	573.2	586.6
55°	365.2	365.2	365.2	373.2	378.6	378.6	370.6	365.2	365.2
57.5°	232.0	226.6	229.2	234.6	234.6	226.6	213.3	210.6	197.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	138.6	138.6	141.3	141.3	138.6	130.6	117.3	106.7	101.3
62.5°	72.0	74.6	74.6	88.0	74.6	66.6	61.3	48.0	45.3
65°	24.0	29.3	29.3	29.3	32.0	29.3	29.3	26.7	26.7
67.5°	16.0	18.7	18.7	21.3	21.3	21.3	21.3	26.7	18.7
70°	13.3	13.3	16.0	18.7	18.7	21.3	16.0	13.3	21.3
72.5°	8.0	10.6	8.0	13.3	10.6	10.6	10.6	10.6	10.6
75°	0.0	5.4	2.6	0.0	8.0	5.4	2.6	5.4	0.0
77.5°	2.6	2.6	2.6	2.6	5.4	5.4	5.4	5.4	2.6
80°	2.6	2.6	5.4	2.6	2.6	5.4	0.0	0.0	10.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6
85°	0.0	2.6	2.6	2.6	2.6	2.6	5.4	5.4	0.0
87.5°	0.0	2.6	0.0	2.6	0.0	0.0	0.0	5.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)