

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: P247668

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100930 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8344.7 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

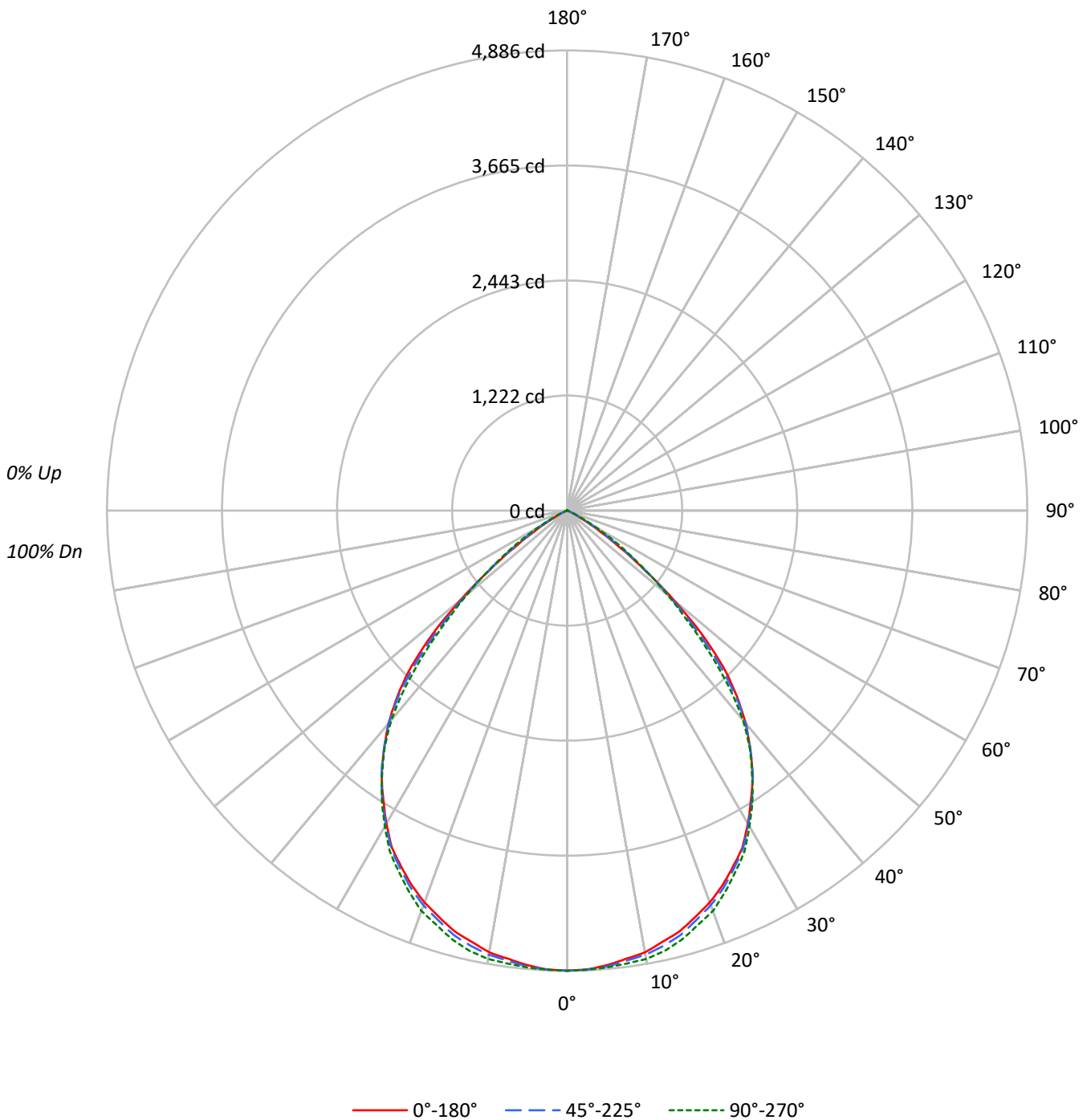
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
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°	461.4	5.5
10°-20°	1313.1	15.7
20°-30°	1929.0	23.1
30°-40°	2135.6	25.6
40°-50°	1702.0	20.4
50°-60°	697.4	8.4
60°-70°	102.7	1.2
70°-80°	1.5	0.0
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°	3703.5	44.4
0°-40°	5839.1	70.0
0°-60°	8238.5	98.7
0°-90°	8344.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8344.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4886	4886	4886	4886	4886	
5°	4845	4854	4858	4866	4870	460
15°	4624	4627	4664	4708	4714	1301
25°	4170	4166	4193	4217	4230	1918
35°	3433	3429	3438	3434	3424	2134
45°	2342	2320	2246	2162	2143	1757
55°	689	712	749	792	793	663
65°	66	69	80	88	86	87
75°	0	0	0	0	0	3
85°	0	0	0	4	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4886.0	4886.0	4886.0	4886.0	4886.0
2.5°	4877.4	4878.5	4878.5	4873.1	4879.6
5°	4845.2	4853.8	4858.1	4865.6	4869.8
7.5°	4800.1	4798.0	4820.5	4847.3	4850.6
10°	4762.6	4758.3	4788.4	4823.8	4833.4
12.5°	4688.6	4693.9	4732.5	4769.1	4788.4
15°	4624.1	4627.4	4663.8	4707.9	4714.3
17.5°	4524.4	4534.0	4558.7	4604.8	4613.4
20°	4426.7	4431.0	4458.9	4496.4	4524.4
22.5°	4307.6	4315.1	4336.6	4369.8	4383.8
25°	4170.2	4165.9	4192.8	4217.4	4230.3
27.5°	4030.7	4023.2	4043.6	4067.2	4079.0
30°	3837.5	3835.4	3847.2	3862.2	3871.8
32.5°	3634.7	3640.1	3651.9	3656.1	3659.4
35°	3433.0	3428.7	3438.3	3434.1	3424.4
37.5°	3193.6	3196.9	3196.9	3192.6	3188.2
40°	2950.0	2953.3	2946.9	2923.2	2906.1
42.5°	2664.6	2666.7	2633.5	2580.9	2545.5
45°	2341.5	2320.1	2246.0	2162.4	2143.0
47.5°	1934.8	1898.4	1821.1	1757.8	1735.3
50°	1479.8	1453.0	1427.3	1394.0	1387.6
52.5°	1037.7	1051.7	1061.4	1072.0	1068.9
55°	689.0	712.5	749.1	792.0	793.0
57.5°	414.2	441.1	487.2	534.4	556.9
60°	243.6	254.4	287.6	323.0	333.7
62.5°	131.9	135.2	150.2	185.6	180.3
65°	65.5	68.7	80.5	88.0	85.9
67.5°	32.2	35.4	37.6	48.3	39.7
70°	7.5	2.1	4.3	5.4	2.1
72.5°	0.0	0.0	2.1	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.1	0.0	0.0	0.0	4.3
80°	9.6	6.4	2.1	2.1	3.3
82.5°	3.3	1.1	3.3	1.1	0.0
85°	0.0	0.0	0.0	4.3	0.0
87.5°	5.4	1.1	1.1	3.3	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)