

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: P247376

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100927 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9127.1 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

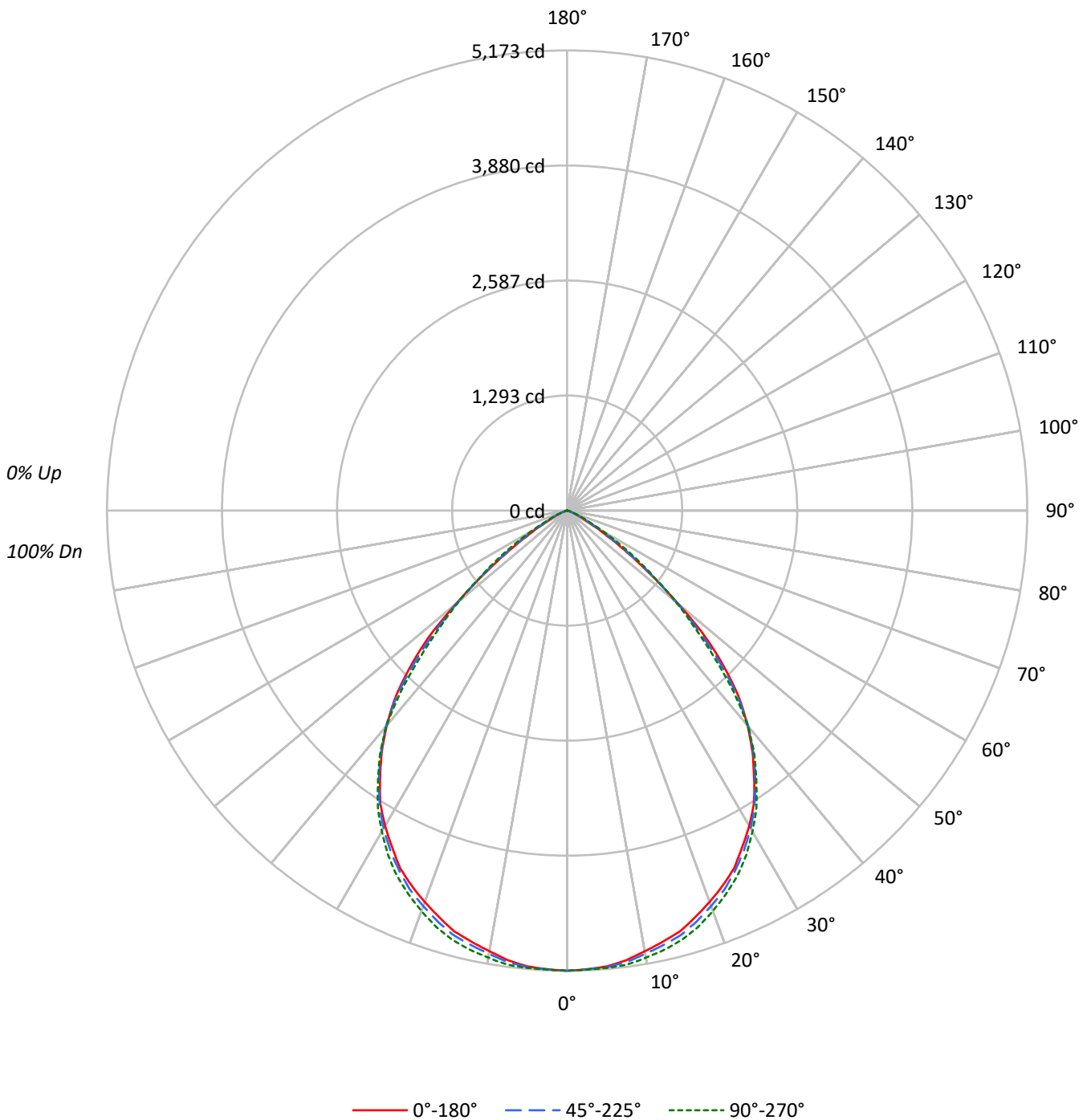
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	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						
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91						
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81						
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72						
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64						
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58						
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43						
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39						
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36						

**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°	488.8	5.4
10°-20°	1391.0	15.2
20°-30°	2054.9	22.5
30°-40°	2296.2	25.2
40°-50°	1853.8	20.3
50°-60°	824.6	9.0
60°-70°	185.7	2.0
70°-80°	28.7	0.3
80°-90°	3.4	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°	3934.7	43.1
0°-40°	6230.9	68.3
0°-60°	8909.3	97.6
0°-90°	9127.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9127.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5173	5173	5173	5173	5173	
5°	5143	5142	5151	5152	5160	487
15°	4899	4902	4941	4978	4994	1378
25°	4438	4438	4467	4504	4529	2035
35°	3665	3663	3687	3691	3706	2284
45°	2511	2492	2445	2359	2347	1899
55°	835	847	885	930	958	785
65°	138	155	166	180	190	160
75°	18	25	26	25	30	24
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5173.4	5173.4	5173.4	5173.4	5173.4
2.5°	5160.2	5157.1	5162.2	5159.1	5164.2
5°	5142.8	5141.8	5151.0	5152.0	5160.2
7.5°	5098.0	5099.1	5118.4	5132.7	5149.0
10°	5029.9	5033.9	5059.3	5091.0	5104.1
12.5°	4964.7	4969.8	5002.4	5046.2	5056.3
15°	4898.6	4901.6	4941.3	4977.9	4994.2
17.5°	4790.6	4811.0	4841.6	4883.3	4904.7
20°	4682.7	4697.0	4731.6	4777.4	4789.6
22.5°	4564.7	4579.9	4614.5	4652.2	4665.4
25°	4438.5	4438.5	4466.9	4503.6	4529.0
27.5°	4262.3	4283.7	4304.0	4336.7	4362.1
30°	4094.3	4102.4	4127.0	4153.4	4165.5
32.5°	3908.0	3909.0	3920.3	3949.8	3961.0
35°	3664.7	3662.7	3687.2	3691.2	3706.4
37.5°	3421.5	3431.6	3440.8	3455.0	3456.0
40°	3155.7	3160.8	3171.0	3155.7	3162.8
42.5°	2866.6	2859.5	2840.2	2794.4	2775.0
45°	2511.3	2492.0	2445.2	2358.7	2347.4
47.5°	2119.4	2071.6	2014.5	1950.4	1938.3
50°	1629.8	1633.8	1605.4	1584.0	1586.0
52.5°	1188.0	1202.3	1209.4	1229.7	1240.9
55°	834.8	847.0	884.6	930.5	957.9
57.5°	540.6	564.0	612.8	664.8	684.1
60°	345.2	360.3	404.1	441.8	467.2
62.5°	226.0	231.1	255.5	290.1	291.2
65°	137.5	154.7	165.9	180.2	190.4
67.5°	89.6	89.6	99.8	113.0	116.1
70°	51.9	53.0	58.0	63.1	66.1
72.5°	28.5	31.6	34.6	39.7	44.8
75°	18.3	25.4	26.4	25.4	30.5
77.5°	12.3	12.3	10.1	17.3	18.3
80°	10.1	7.1	9.1	13.3	14.3
82.5°	0.0	1.0	1.0	2.0	0.0
85°	2.0	3.0	5.1	11.2	3.0
87.5°	0.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)