

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: P247471

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B909727 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7318.0 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

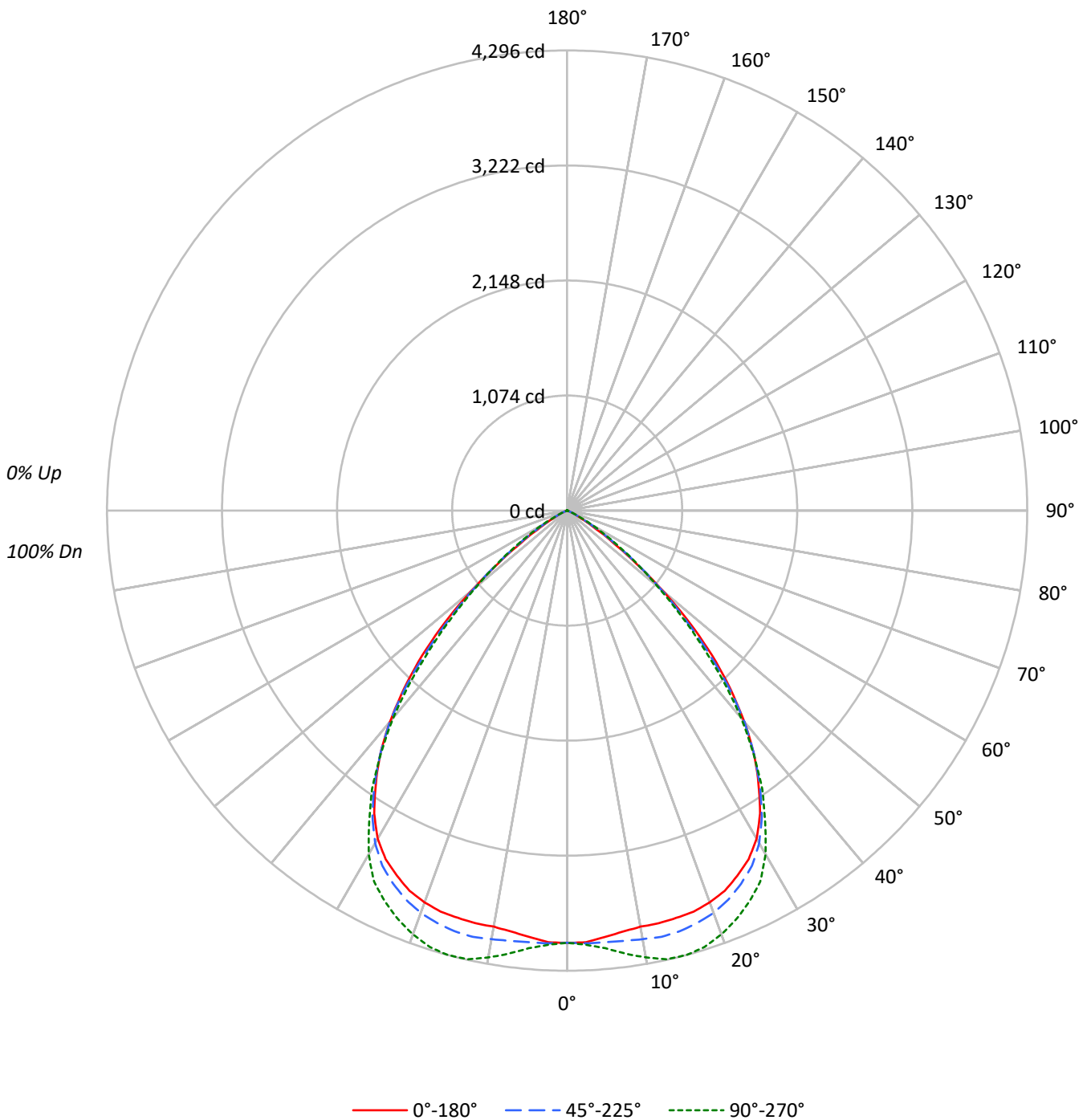
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	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°	387.4	5.3
10°-20°	1154.6	15.8
20°-30°	1776.8	24.3
30°-40°	1946.0	26.6
40°-50°	1415.0	19.3
50°-60°	544.3	7.4
60°-70°	85.3	1.2
70°-80°	6.1	0.1
80°-90°	2.5	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°	3318.8	45.4
0°-40°	5264.9	71.9
0°-60°	7224.2	98.7
0°-90°	7318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7318.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4035	4035	4035	4035	4035	
5°	3997	4017	4045	4083	4101	380
15°	3937	3967	4065	4216	4296	1114
25°	3760	3783	3843	3957	4025	1729
35°	3115	3115	3135	3155	3174	1934
45°	1914	1895	1843	1796	1772	1455
55°	529	543	575	594	610	517
65°	60	62	64	72	74	73
75°	5	10	8	10	10	6
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4034.7	4034.7	4034.7	4034.7	4034.7
2.5°	4033.9	4040.2	4044.1	4052.7	4056.6
5°	3997.0	4017.4	4044.9	4083.3	4101.3
7.5°	3964.9	3993.1	4051.9	4135.1	4171.9
10°	3944.5	3975.1	4062.9	4175.8	4235.4
12.5°	3946.9	3980.6	4075.5	4211.1	4291.1
15°	3936.7	3967.2	4065.3	4215.8	4295.8
17.5°	3924.9	3950.0	4037.0	4184.5	4270.7
20°	3892.0	3913.1	3996.3	4129.6	4209.6
22.5°	3842.6	3862.2	3931.2	4055.1	4128.8
25°	3760.2	3783.0	3843.3	3957.1	4025.3
27.5°	3668.5	3681.8	3737.5	3841.0	3906.1
30°	3538.3	3543.0	3584.6	3664.5	3703.8
32.5°	3352.4	3351.7	3383.0	3423.0	3437.9
35°	3114.8	3114.8	3135.2	3154.8	3174.4
37.5°	2867.8	2864.7	2867.0	2871.7	2855.3
40°	2574.5	2568.2	2571.4	2543.1	2525.1
42.5°	2253.0	2258.5	2227.1	2176.9	2158.1
45°	1914.2	1894.6	1842.9	1795.8	1771.5
47.5°	1554.3	1523.7	1474.3	1425.7	1421.7
50°	1168.5	1170.0	1137.9	1110.4	1099.4
52.5°	810.9	819.5	836.0	839.1	843.0
55°	529.3	543.4	574.8	593.6	610.1
57.5°	323.9	349.8	376.4	411.7	414.8
60°	189.0	201.5	231.3	258.0	269.8
62.5°	106.7	118.4	124.7	140.4	144.3
65°	59.6	62.0	63.5	72.1	74.5
67.5°	36.1	37.6	39.2	38.4	40.0
70°	3.1	7.1	3.1	3.9	2.4
72.5°	13.3	8.6	9.4	7.1	4.7
75°	4.7	10.2	7.8	10.2	10.2
77.5°	3.1	2.4	3.9	4.7	3.9
80°	0.8	0.0	0.0	0.0	0.0
82.5°	7.1	6.3	3.9	6.3	2.4
85°	1.6	0.0	0.0	0.0	1.6
87.5°	4.7	2.4	2.4	5.5	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)