

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: P247375

Luminaire Tested: **LD8B90D010 ER8B90927 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247375  
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: LD8B90D010 ER8B90927 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7909.9 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

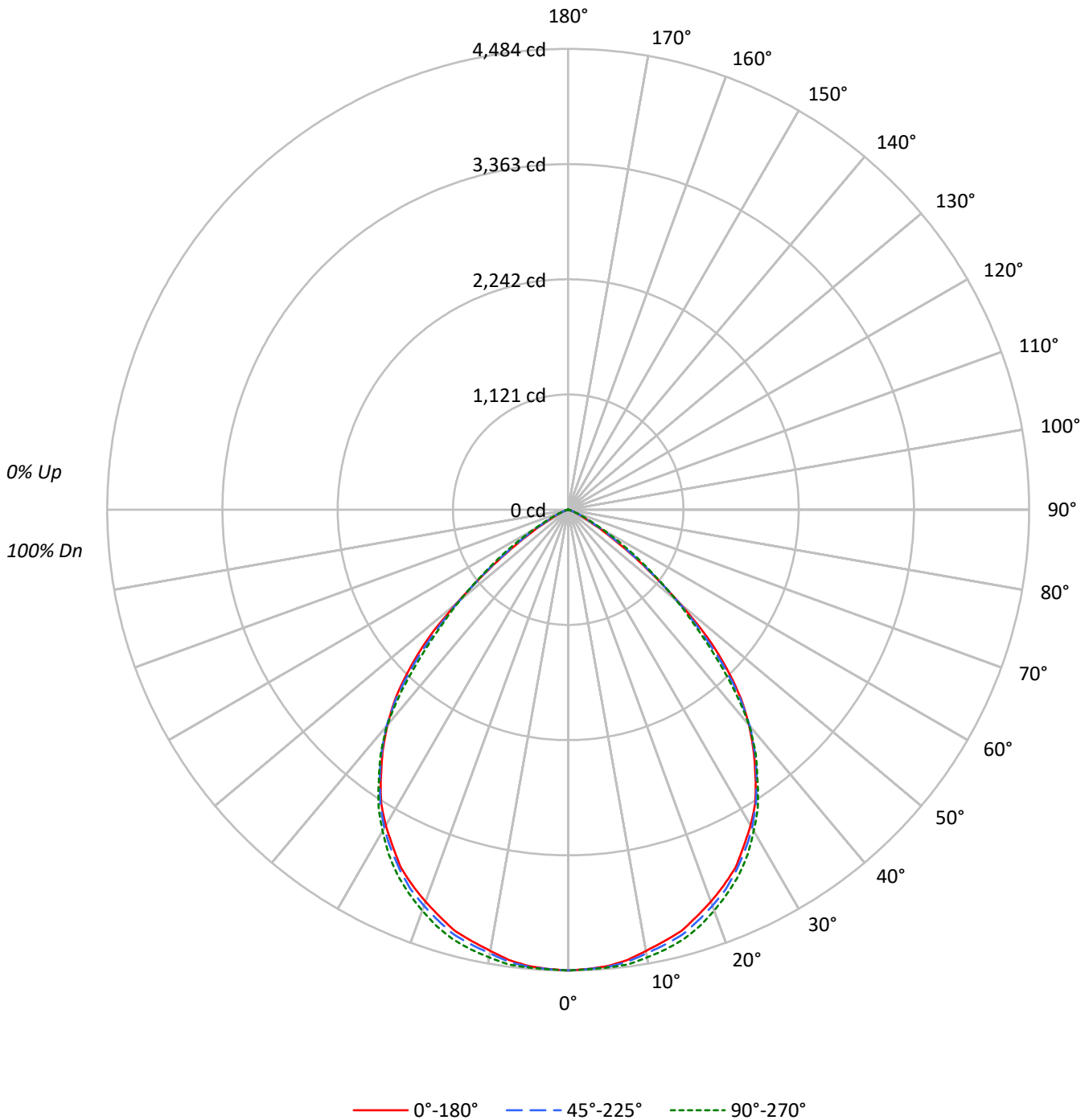
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	423.6	5.4
10°-20°	1205.4	15.2
20°-30°	1780.9	22.5
30°-40°	1990.0	25.2
40°-50°	1606.6	20.3
50°-60°	714.6	9.0
60°-70°	161.0	2.0
70°-80°	24.9	0.3
80°-90°	3.0	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°	3409.9	43.1
0°-40°	5399.9	68.3
0°-60°	7721.1	97.6
0°-90°	7909.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7909.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4484	4484	4484	4484	4484	
5°	4457	4456	4464	4465	4472	422
15°	4245	4248	4282	4314	4328	1194
25°	3846	3846	3871	3903	3925	1763
35°	3176	3174	3196	3199	3212	1980
45°	2176	2160	2119	2044	2034	1646
55°	723	734	767	806	830	681
65°	119	134	144	156	165	139
75°	16	22	23	22	26	21
85°	2	3	4	10	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4483.5	4483.5	4483.5	4483.5	4483.5
2.5°	4472.0	4469.3	4473.8	4471.1	4475.5
5°	4457.0	4456.1	4464.0	4464.9	4472.0
7.5°	4418.1	4419.0	4435.8	4448.1	4462.3
10°	4359.0	4362.5	4384.6	4412.0	4423.5
12.5°	4302.6	4307.0	4335.2	4373.2	4382.0
15°	4245.2	4247.9	4282.3	4314.0	4328.2
17.5°	4151.7	4169.4	4195.8	4232.0	4250.5
20°	4058.2	4070.6	4100.5	4140.2	4150.8
22.5°	3955.8	3969.1	3999.2	4031.8	4043.2
25°	3846.5	3846.5	3871.1	3903.0	3925.0
27.5°	3693.8	3712.4	3730.0	3758.3	3780.3
30°	3548.2	3555.3	3576.5	3599.4	3610.0
32.5°	3386.8	3387.7	3397.4	3423.0	3432.7
35°	3176.0	3174.2	3195.5	3198.9	3212.2
37.5°	2965.2	2973.9	2981.9	2994.3	2995.1
40°	2734.9	2739.3	2748.2	2734.9	2741.1
42.5°	2484.3	2478.2	2461.4	2421.7	2404.9
45°	2176.4	2159.7	2119.0	2044.1	2034.4
47.5°	1836.8	1795.3	1745.9	1690.3	1679.7
50°	1412.4	1415.9	1391.3	1372.7	1374.5
52.5°	1029.6	1041.9	1048.0	1065.7	1075.4
55°	723.4	733.9	766.7	806.4	830.1
57.5°	468.4	488.7	531.1	576.1	592.9
60°	299.0	312.3	350.2	382.8	404.9
62.5°	195.9	200.2	221.4	251.4	252.3
65°	119.1	134.1	143.8	156.2	164.9
67.5°	77.6	77.6	86.5	97.9	100.6
70°	45.0	45.9	50.3	54.7	57.4
72.5°	24.8	27.3	30.0	34.4	38.8
75°	15.9	22.0	23.0	22.0	26.4
77.5°	10.6	10.6	8.8	15.0	15.9
80°	8.8	6.2	8.0	11.5	12.4
82.5°	0.0	0.9	0.9	1.8	0.0
85°	1.8	2.7	4.4	9.7	2.7
87.5°	0.0	2.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)