

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: **LD8B90D010 ER8B90927 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: LD8B90D010 ER8B90927 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8232.8 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

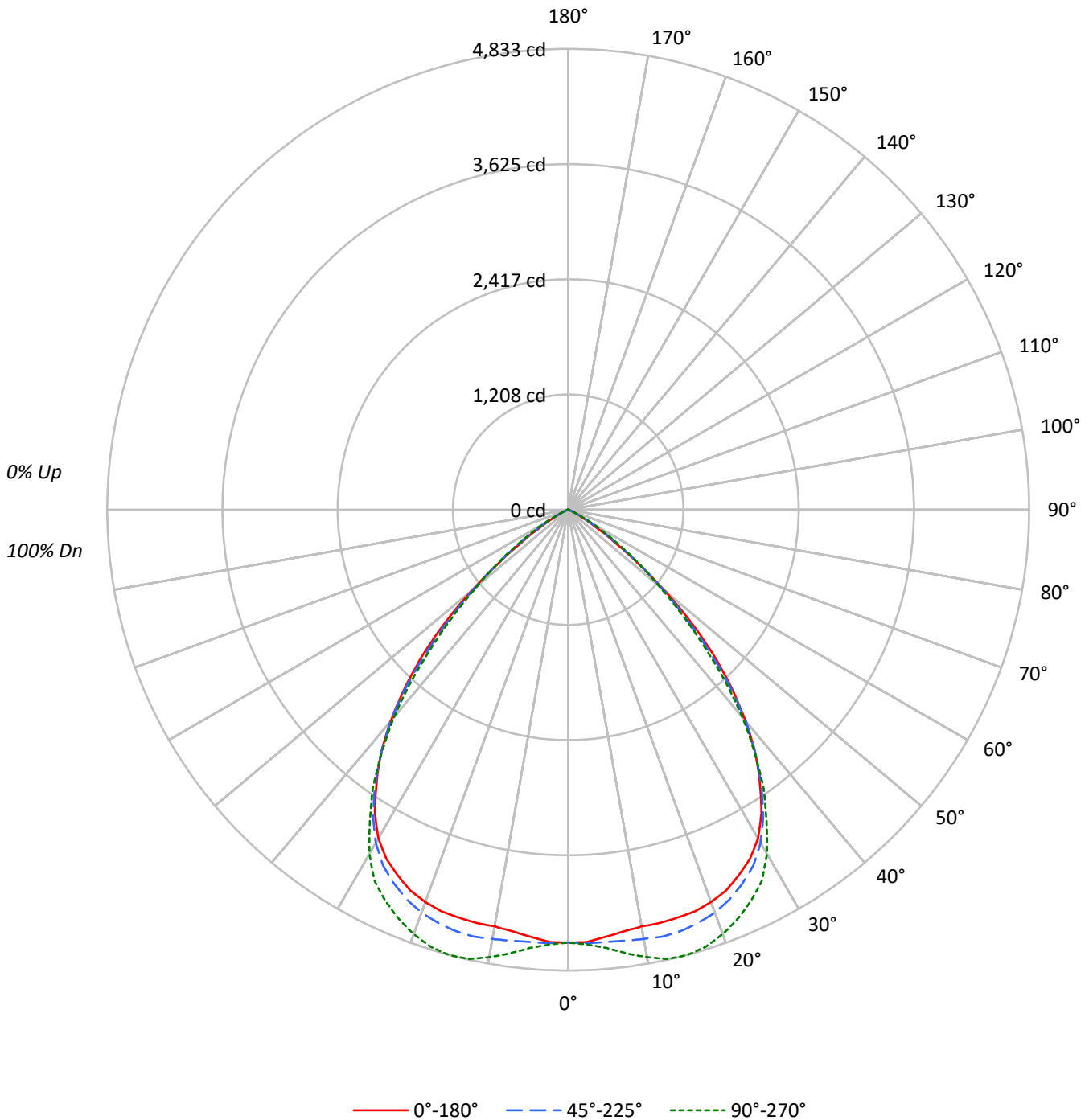
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	435.9	5.3
10°-20°	1299.0	15.8
20°-30°	1998.9	24.3
30°-40°	2189.3	26.6
40°-50°	1591.8	19.3
50°-60°	612.3	7.4
60°-70°	95.9	1.2
70°-80°	6.9	0.1
80°-90°	2.8	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°	3733.7	45.4
0°-40°	5923.0	71.9
0°-60°	8127.2	98.7
0°-90°	8232.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8232.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4539	4539	4539	4539	4539	
5°	4497	4520	4550	4594	4614	427
15°	4429	4463	4574	4743	4833	1253
25°	4230	4256	4324	4452	4528	1946
35°	3504	3504	3527	3549	3571	2176
45°	2154	2131	2073	2020	1993	1637
55°	596	611	647	668	686	582
65°	67	70	71	81	84	82
75°	5	12	9	12	12	7
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°	4539.0	4539.0	4539.0	4539.0	4539.0
2.5°	4538.1	4545.2	4549.6	4559.3	4563.7
5°	4496.6	4519.6	4550.5	4593.7	4614.0
7.5°	4460.5	4492.2	4558.4	4652.0	4693.4
10°	4437.6	4472.0	4570.8	4697.8	4764.8
12.5°	4440.3	4478.2	4584.9	4737.5	4827.5
15°	4428.8	4463.1	4573.5	4742.8	4832.8
17.5°	4415.5	4443.8	4541.6	4707.6	4804.5
20°	4378.5	4402.2	4495.8	4645.8	4735.8
22.5°	4322.9	4345.0	4422.6	4562.0	4644.9
25°	4230.2	4255.9	4323.7	4451.7	4528.5
27.5°	4127.1	4142.0	4204.7	4321.1	4394.4
30°	3980.6	3985.9	4032.7	4122.6	4166.8
32.5°	3771.4	3770.7	3805.9	3850.9	3867.6
35°	3504.2	3504.2	3527.1	3549.2	3571.2
37.5°	3226.3	3222.8	3225.4	3230.7	3212.2
40°	2896.3	2889.2	2892.8	2861.0	2840.7
42.5°	2534.6	2540.8	2505.5	2449.0	2427.9
45°	2153.5	2131.4	2073.3	2020.3	1992.9
47.5°	1748.6	1714.2	1658.6	1603.9	1599.4
50°	1314.6	1316.2	1280.1	1249.2	1236.8
52.5°	912.3	921.9	940.5	944.0	948.4
55°	595.5	611.3	646.6	667.8	686.4
57.5°	364.4	393.5	423.4	463.2	466.6
60°	212.6	226.7	260.2	290.2	303.5
62.5°	120.0	133.2	140.3	158.0	162.3
65°	67.0	69.8	71.4	81.1	83.8
67.5°	40.6	42.3	44.1	43.2	45.0
70°	3.5	8.0	3.5	4.4	2.7
72.5°	15.0	9.7	10.6	8.0	5.3
75°	5.3	11.5	8.8	11.5	11.5
77.5°	3.5	2.7	4.4	5.3	4.4
80°	0.9	0.0	0.0	0.0	0.0
82.5°	8.0	7.1	4.4	7.1	2.7
85°	1.8	0.0	0.0	0.0	1.8
87.5°	5.3	2.7	2.7	6.2	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)