

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: P247569

Luminaire Tested: **LD8B120D010 ER8B1209727 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B1209727 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8573.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

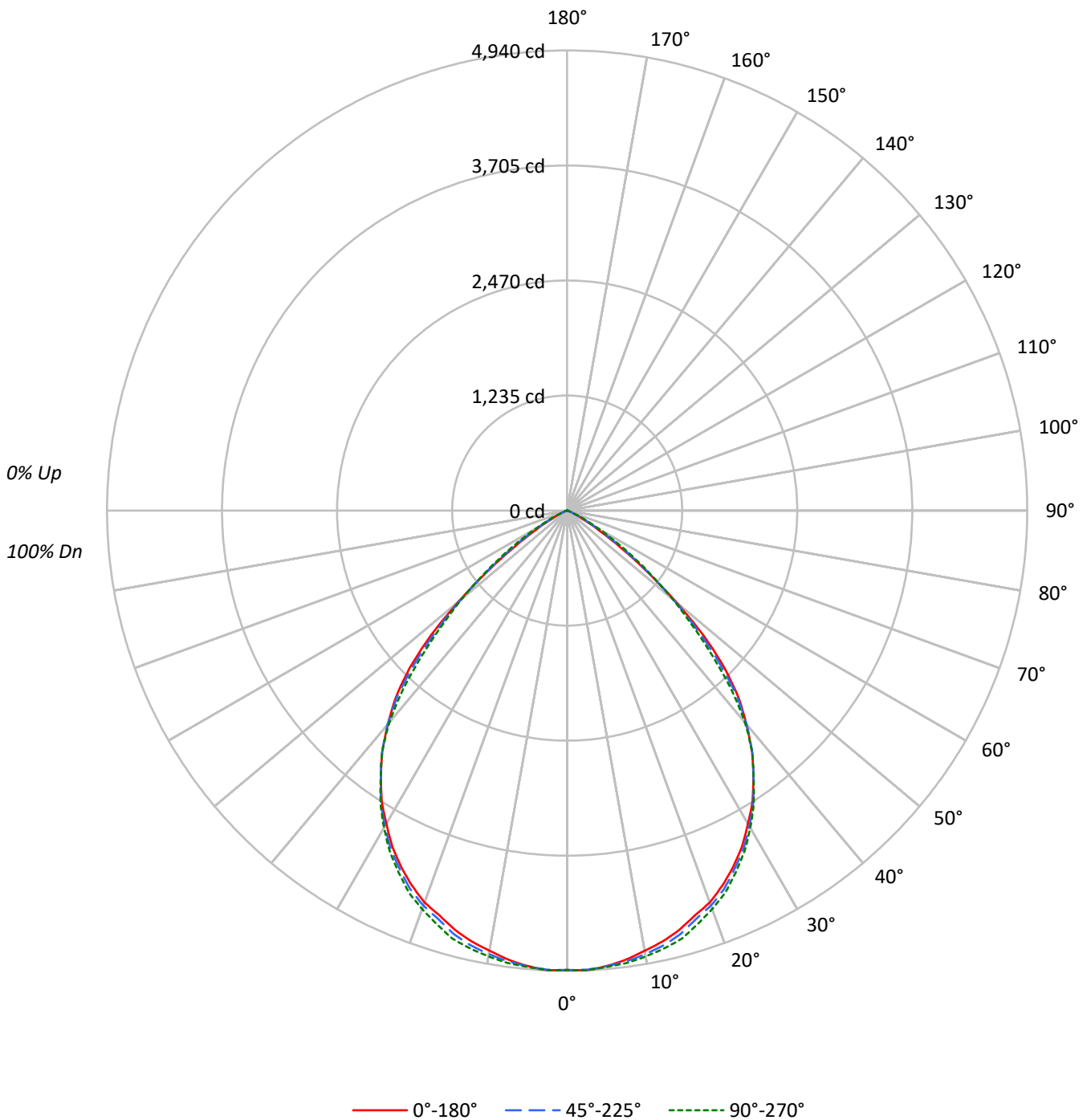
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	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°	466.5	5.4
10°-20°	1324.9	15.5
20°-30°	1953.9	22.8
30°-40°	2174.7	25.4
40°-50°	1750.2	20.4
50°-60°	744.3	8.7
60°-70°	139.5	1.6
70°-80°	16.9	0.2
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°	3745.3	43.7
0°-40°	5920.0	69.1
0°-60°	8414.5	98.2
0°-90°	8573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4932	4932	4932	4932	4932	
5°	4907	4908	4909	4918	4916	465
15°	4658	4684	4706	4742	4758	1313
25°	4218	4233	4249	4273	4284	1938
35°	3484	3486	3488	3489	3489	2170
45°	2391	2372	2307	2237	2204	1798
55°	738	755	800	832	852	703
65°	92	103	116	124	138	120
75°	9	11	17	16	15	15
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4931.9	4931.9	4931.9	4931.9	4931.9
2.5°	4940.1	4943.1	4932.9	4934.9	4938.0
5°	4907.2	4908.3	4909.3	4917.5	4916.5
7.5°	4861.1	4868.3	4880.6	4896.0	4900.1
10°	4798.5	4817.0	4835.4	4853.9	4860.1
12.5°	4737.0	4748.3	4781.1	4799.5	4814.9
15°	4658.0	4683.6	4706.2	4742.1	4757.5
17.5°	4557.5	4575.9	4597.5	4633.4	4654.9
20°	4476.4	4481.6	4512.3	4544.1	4551.3
22.5°	4356.4	4367.7	4399.5	4421.0	4439.5
25°	4217.9	4233.3	4248.7	4273.3	4283.6
27.5°	4066.1	4075.4	4096.9	4114.3	4123.6
30°	3882.5	3903.0	3912.3	3920.5	3932.8
32.5°	3704.0	3710.2	3718.4	3723.5	3729.7
35°	3484.5	3485.5	3487.6	3488.6	3488.6
37.5°	3259.9	3267.1	3265.0	3258.8	3261.9
40°	2994.2	3006.5	2999.3	2980.9	2968.6
42.5°	2726.5	2720.3	2695.7	2640.3	2614.7
45°	2391.1	2371.6	2306.9	2237.2	2204.4
47.5°	1989.0	1945.9	1891.5	1837.1	1815.6
50°	1524.3	1518.1	1493.5	1472.0	1474.0
52.5°	1092.4	1107.8	1113.0	1133.5	1143.7
55°	738.5	755.0	800.1	831.9	852.4
57.5°	449.3	481.1	529.3	581.6	608.3
60°	284.1	302.6	346.7	380.6	392.9
62.5°	177.5	178.5	200.0	226.7	238.0
65°	92.3	102.6	115.9	124.1	138.5
67.5°	57.4	57.4	56.4	68.7	76.9
70°	38.0	32.8	33.9	41.0	44.1
72.5°	13.3	22.6	20.5	20.5	14.4
75°	9.2	11.3	17.4	16.4	15.4
77.5°	12.3	11.3	8.2	7.2	14.4
80°	5.1	4.1	1.0	6.2	6.2
82.5°	5.1	2.1	6.2	8.2	5.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)