

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: P247380

Luminaire Tested: **LD8B100D010 ER8B1009730 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247380  
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: LD8B100D010 ER8B1009730 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8583.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 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

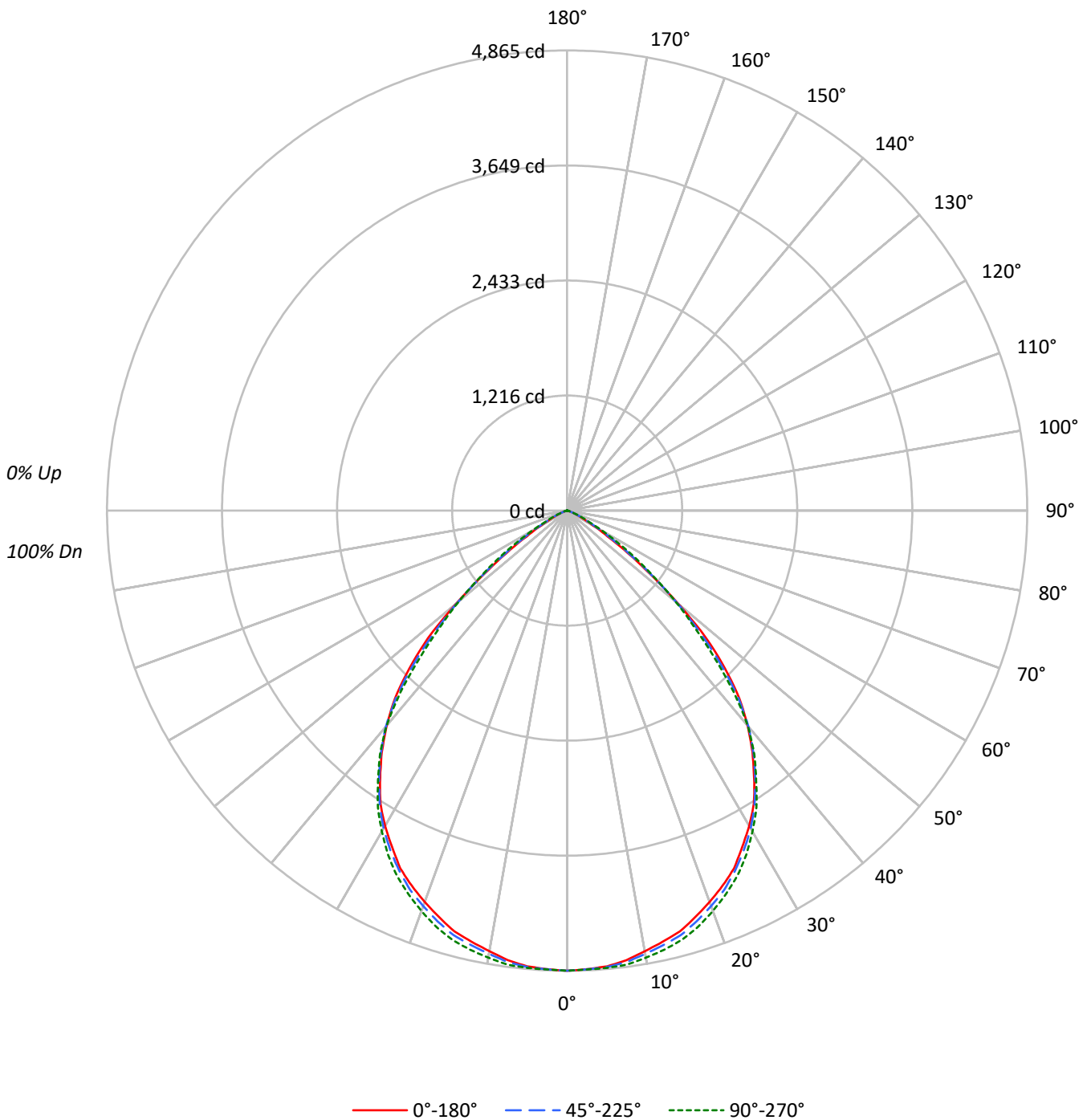
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	459.7	5.4
10°-20°	1308.0	15.2
20°-30°	1932.4	22.5
30°-40°	2159.3	25.2
40°-50°	1743.3	20.3
50°-60°	775.4	9.0
60°-70°	174.7	2.0
70°-80°	27.0	0.3
80°-90°	3.2	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°	3700.1	43.1
0°-40°	5859.5	68.3
0°-60°	8378.2	97.6
0°-90°	8583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8583.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4865	4865	4865	4865	4865	
5°	4836	4835	4844	4845	4852	458
15°	4606	4609	4647	4681	4696	1295
25°	4174	4174	4201	4235	4259	1913
35°	3446	3444	3467	3471	3486	2148
45°	2362	2344	2299	2218	2208	1786
55°	785	796	832	875	901	738
65°	129	146	156	169	179	150
75°	17	24	25	24	29	22
85°	2	3	5	10	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4865.0	4865.0	4865.0	4865.0	4865.0
2.5°	4852.5	4849.7	4854.4	4851.6	4856.4
5°	4836.3	4835.3	4843.9	4844.9	4852.5
7.5°	4794.1	4795.1	4813.3	4826.7	4842.0
10°	4730.0	4733.8	4757.8	4787.4	4799.9
12.5°	4668.7	4673.5	4704.1	4745.3	4754.9
15°	4606.5	4609.4	4646.7	4681.2	4696.5
17.5°	4505.0	4524.2	4552.9	4592.1	4612.2
20°	4403.6	4417.0	4449.5	4492.6	4504.1
22.5°	4292.5	4306.9	4339.4	4374.8	4387.3
25°	4173.8	4173.8	4200.6	4235.1	4259.0
27.5°	4008.2	4028.3	4047.4	4078.1	4102.0
30°	3850.2	3857.9	3880.9	3905.8	3917.3
32.5°	3675.1	3676.0	3686.5	3714.3	3724.8
35°	3446.3	3444.3	3467.3	3471.2	3485.5
37.5°	3217.5	3227.0	3235.7	3249.1	3250.0
40°	2967.6	2972.4	2982.0	2967.6	2974.3
42.5°	2695.7	2689.0	2670.9	2627.8	2609.6
45°	2361.6	2343.5	2299.4	2218.1	2207.5
47.5°	1993.1	1948.1	1894.5	1834.2	1822.7
50°	1532.6	1536.5	1509.7	1489.6	1491.5
52.5°	1117.2	1130.6	1137.3	1156.4	1166.9
55°	785.0	796.5	831.9	875.0	900.8
57.5°	508.3	530.3	576.3	625.1	643.3
60°	324.5	338.9	380.0	415.5	439.4
62.5°	212.5	217.3	240.3	272.8	273.8
65°	129.2	145.5	156.0	169.4	179.0
67.5°	84.2	84.2	93.8	106.3	109.1
70°	48.8	49.8	54.6	59.4	62.2
72.5°	26.8	29.7	32.5	37.3	42.1
75°	17.2	23.9	24.9	23.9	28.7
77.5°	11.5	11.5	9.6	16.3	17.2
80°	9.6	6.7	8.6	12.4	13.4
82.5°	0.0	1.0	1.0	1.9	0.0
85°	1.9	2.9	4.8	10.5	2.9
87.5°	0.0	2.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)