

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: P248089

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009730 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: 16975.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

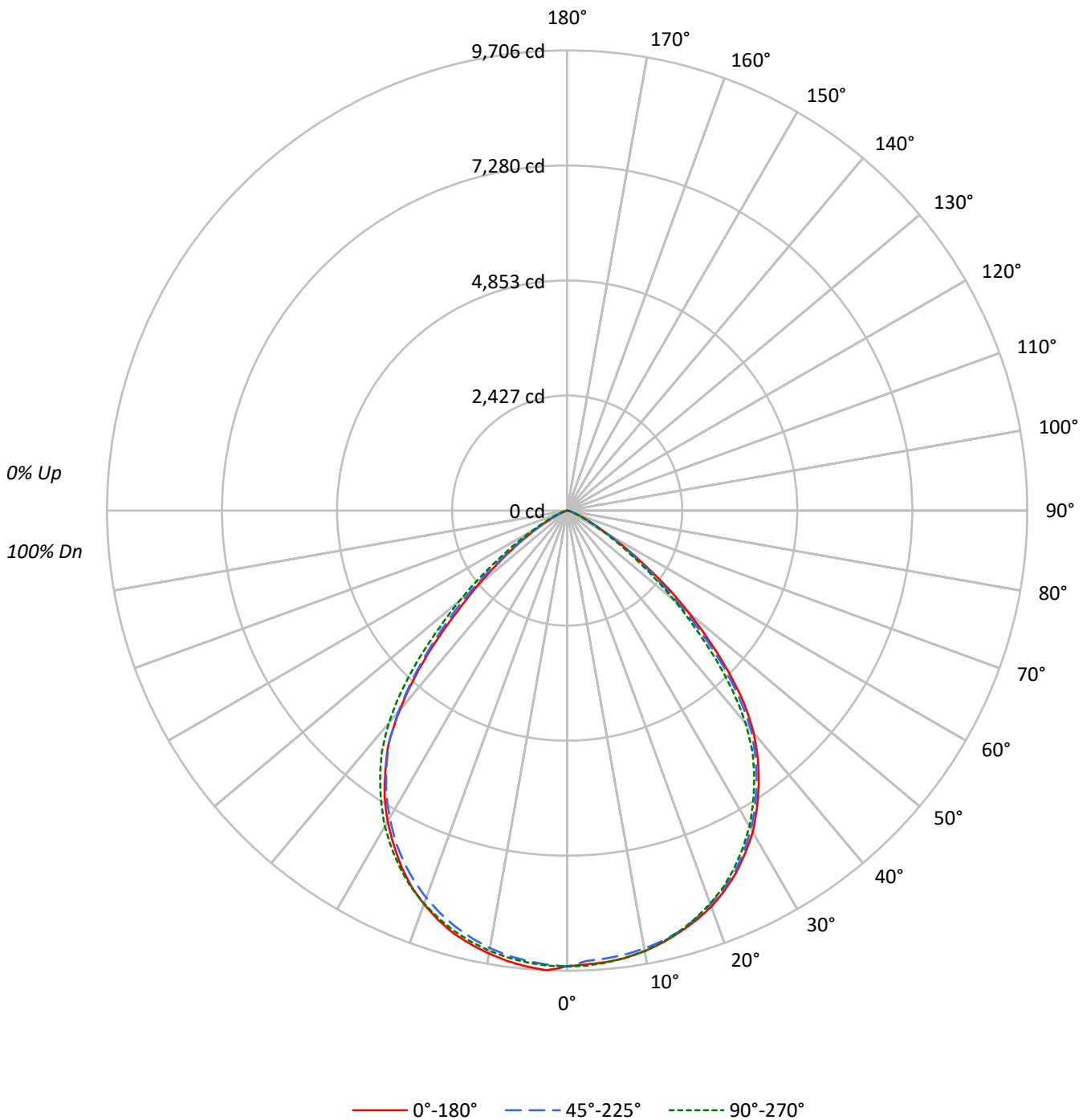
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90	90	90
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81	81	81
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72	72	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58	58	58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43	43	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36	36	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
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°	908.0	5.3
10°-20°	2586.1	15.2
20°-30°	3820.5	22.5
30°-40°	4257.6	25.1
40°-50°	3362.3	19.8
50°-60°	1552.7	9.1
60°-70°	398.9	2.3
70°-80°	76.8	0.5
80°-90°	12.0	0.1
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°	7314.6	43.1
0°-40°	11572.2	68.2
0°-60°	16487.2	97.1
0°-90°	16975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16975.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9614	9614	9614	9614	9614	
5°	9558	9482	9568	9539	9654	909
15°	9202	9180	9185	9089	9235	2597
25°	8431	8392	8330	8164	8280	3874
35°	7048	6969	6878	6649	6687	4389
45°	4816	4675	4432	4078	3935	3675
55°	1961	1848	1709	1463	1376	1817
65°	426	431	380	291	271	467
75°	71	74	76	58	48	85
85°	11	11	9	5	4	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9614.4	9614.4	9614.4	9614.4	9614.4	9614.4	9614.4	9614.4	9614.4
2.5°	9578.2	9623.3	9508.6	9601.7	9605.6	9539.9	9585.0	9638.9	9705.6
5°	9558.5	9604.6	9482.1	9568.4	9568.4	9496.8	9538.9	9586.0	9653.6
7.5°	9512.5	9562.5	9441.9	9522.3	9509.5	9431.1	9468.4	9514.4	9587.0
10°	9436.0	9497.8	9380.1	9456.6	9430.1	9339.9	9372.3	9420.3	9488.0
12.5°	9331.1	9404.6	9294.8	9361.5	9319.3	9216.4	9242.9	9304.6	9371.3
15°	9201.7	9277.2	9180.1	9238.0	9185.0	9070.3	9089.0	9151.7	9235.0
17.5°	9057.6	9131.1	9022.3	9085.0	9014.4	8895.8	8902.7	8975.2	9050.7
20°	8891.9	8952.7	8840.9	8900.7	8821.3	8690.9	8691.9	8756.6	8835.0
22.5°	8674.3	8738.0	8622.3	8672.3	8599.8	8460.5	8443.9	8506.6	8582.1
25°	8431.1	8497.8	8391.9	8409.6	8330.2	8186.0	8163.5	8209.6	8280.2
27.5°	8140.0	8205.6	8086.0	8108.6	8021.3	7883.1	7852.7	7877.2	7933.1
30°	7830.2	7871.3	7757.6	7776.2	7691.9	7528.2	7482.1	7515.5	7570.4
32.5°	7448.8	7478.2	7381.2	7391.0	7299.8	7158.6	7097.8	7107.6	7163.5
35°	7047.8	7063.5	6969.4	6971.4	6878.2	6735.1	6648.8	6643.9	6687.1
37.5°	6605.7	6616.5	6521.4	6516.5	6420.4	6265.5	6175.3	6159.6	6186.1
40°	6120.4	6135.1	6036.1	6004.7	5857.7	5681.2	5534.2	5506.7	5495.9
42.5°	5532.2	5492.0	5388.1	5335.1	5187.1	4960.6	4824.4	4783.2	4747.9
45°	4815.5	4783.2	4675.4	4555.8	4432.2	4261.6	4078.3	3965.6	3935.2
47.5°	4063.6	4025.4	3870.5	3765.6	3644.0	3565.6	3368.5	3195.0	3119.5
50°	3333.2	3291.1	3118.5	3041.1	2969.5	2852.9	2661.7	2505.8	2477.4
52.5°	2657.8	2594.0	2446.0	2365.6	2301.9	2172.5	1999.9	1909.7	1861.7
55°	1960.7	1950.9	1848.0	1790.1	1708.8	1605.8	1462.7	1395.1	1376.4
57.5°	1428.4	1392.1	1352.9	1303.9	1233.3	1103.9	1015.7	964.7	960.8
60°	959.8	971.5	971.5	917.6	844.1	759.8	689.2	661.7	662.7
62.5°	644.1	651.9	650.0	626.5	569.6	501.0	454.9	435.3	436.3
65°	425.5	423.5	431.4	414.7	380.4	332.3	291.2	280.4	270.6
67.5°	270.6	273.5	270.6	261.8	241.2	206.9	179.4	162.7	157.8
70°	164.7	160.8	161.8	159.8	145.1	128.4	108.8	95.1	91.2
72.5°	99.0	102.0	102.9	105.9	103.9	92.2	78.4	68.6	66.7
75°	70.6	71.6	74.5	77.4	76.5	68.6	57.8	51.0	48.0
77.5°	52.9	52.9	54.9	58.8	55.9	49.0	41.2	35.3	33.3
80°	36.3	37.3	38.2	38.2	35.3	31.4	24.5	20.6	18.6
82.5°	21.6	22.5	21.6	21.6	19.6	15.7	11.8	10.8	9.8
85°	10.8	10.8	10.8	10.8	8.8	6.9	4.9	3.9	3.9
87.5°	4.9	4.9	4.9	3.9	2.9	2.0	2.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)