

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: P248158

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009727 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: 16744.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

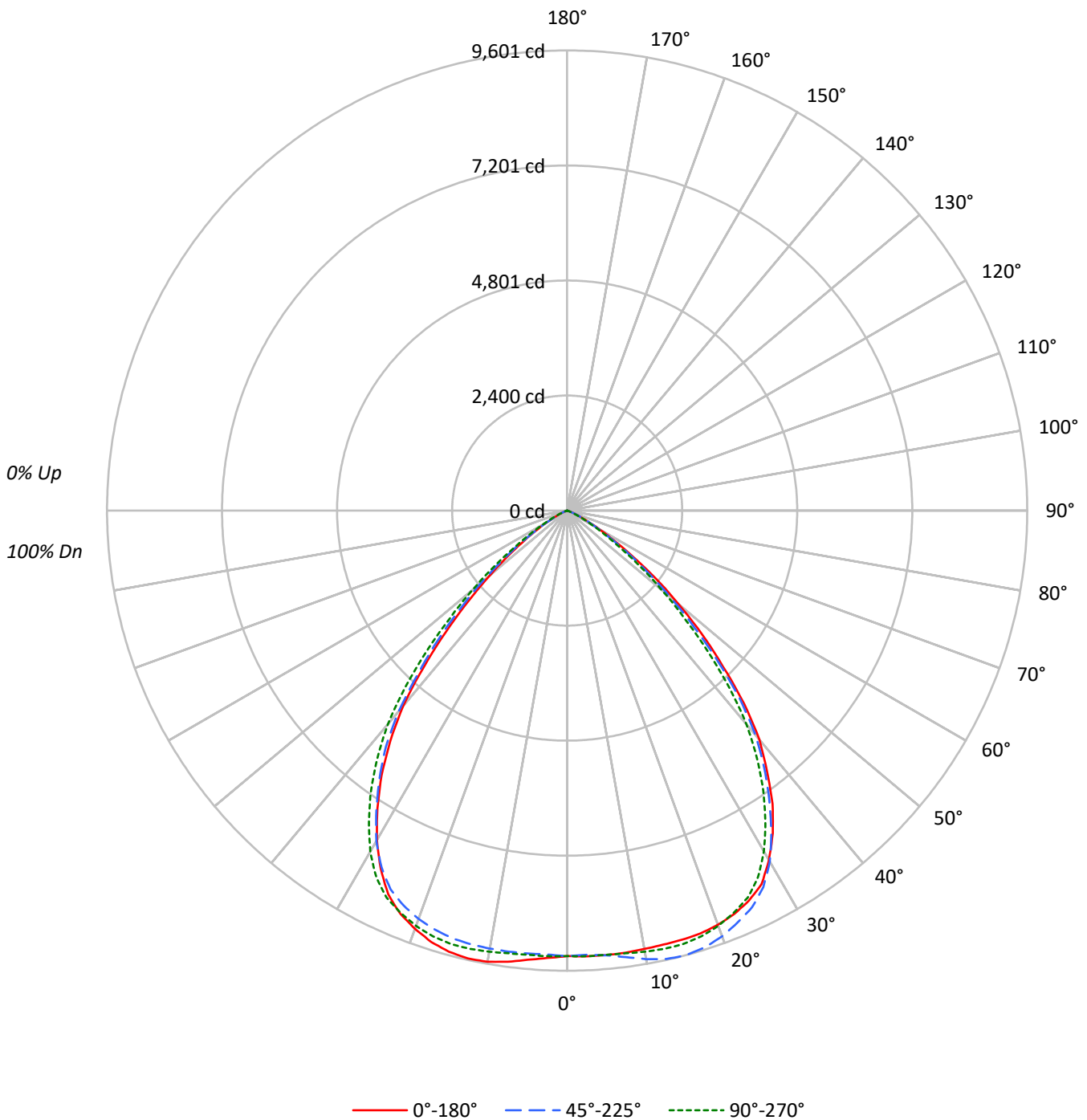
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73
4	92	82	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	72	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48
8	70	59	52	47	69	58	51	46	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°	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°	891.3	5.3
10°-20°	2652.8	15.8
20°-30°	4077.6	24.4
30°-40°	4407.8	26.3
40°-50°	3171.8	18.9
50°-60°	1279.9	7.6
60°-70°	246.1	1.5
70°-80°	14.6	0.1
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°	7621.7	45.5
0°-40°	12029.5	71.8
0°-60°	16481.2	98.4
0°-90°	16744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9296	9296	9296	9296	9296	
5°	9310	9312	9303	9276	9406	888
15°	9270	9601	9362	9239	9527	2624
25°	8979	9133	8911	8719	8833	4119
35°	7470	7352	7138	6829	6748	4626
45°	4594	4458	4135	3796	3584	3549
55°	1674	1548	1362	1177	1077	1561
65°	271	276	203	158	156	317
75°	14	11	8	8	8	23
85°	3	2	1	1	1	3
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°	9295.6	9295.6	9295.6	9295.6	9295.6	9295.6	9295.6	9295.6	9295.6
2.5°	9309.5	9296.6	9278.0	9277.1	9306.8	9290.1	9269.7	9291.0	9343.8
5°	9309.5	9311.4	9312.3	9304.0	9303.0	9275.3	9276.2	9333.6	9405.9
7.5°	9303.0	9339.2	9395.7	9382.7	9317.9	9256.7	9281.7	9397.6	9493.9
10°	9288.2	9372.5	9502.3	9482.8	9343.8	9240.0	9279.9	9441.1	9557.9
12.5°	9275.3	9391.1	9582.9	9559.7	9365.1	9228.9	9268.8	9446.7	9572.7
15°	9269.7	9394.8	9601.4	9572.7	9362.4	9206.7	9239.1	9405.9	9527.3
17.5°	9249.3	9366.1	9555.1	9519.9	9314.2	9154.8	9168.7	9320.7	9435.6
20°	9197.4	9297.5	9452.2	9404.0	9221.5	9061.2	9065.8	9180.7	9284.5
22.5°	9109.4	9188.1	9300.3	9253.9	9083.4	8938.0	8918.5	9014.9	9102.0
25°	8978.7	9042.7	9132.6	9082.5	8911.1	8762.8	8719.3	8780.4	8833.3
27.5°	8786.9	8809.2	8860.1	8783.2	8624.8	8479.3	8388.5	8397.8	8425.6
30°	8418.1	8454.3	8458.9	8370.9	8212.4	8043.8	7960.4	7914.1	7936.3
32.5°	7984.5	7974.3	7928.0	7821.4	7697.3	7562.9	7405.4	7352.6	7364.6
35°	7470.2	7446.1	7351.6	7249.7	7137.6	6972.7	6829.0	6751.2	6747.5
37.5°	6843.9	6811.4	6749.3	6608.5	6505.6	6366.7	6210.1	6123.9	6059.0
40°	6240.6	6189.7	6116.5	5947.8	5818.1	5624.5	5464.2	5344.6	5327.0
42.5°	5462.3	5437.3	5332.6	5163.0	5000.9	4772.0	4585.7	4485.7	4433.8
45°	4594.1	4594.1	4457.9	4308.7	4135.4	3964.9	3796.3	3647.1	3584.1
47.5°	3816.7	3720.3	3591.5	3432.1	3305.2	3184.7	3005.9	2822.4	2779.8
50°	3025.3	2964.2	2812.2	2660.3	2582.4	2467.5	2326.7	2148.8	2103.4
52.5°	2337.8	2241.4	2109.9	1996.8	1923.6	1833.7	1680.8	1559.5	1536.3
55°	1674.4	1625.3	1548.3	1455.7	1362.1	1267.6	1176.8	1107.3	1076.7
57.5°	1147.1	1130.5	1066.5	1011.8	921.0	837.6	754.3	732.0	733.9
60°	750.5	749.6	718.1	669.0	590.2	514.3	475.3	464.2	471.6
62.5°	454.0	462.4	454.0	425.3	365.1	306.7	278.9	284.5	279.8
65°	270.6	278.9	276.1	239.1	202.9	177.9	158.4	151.0	155.7
67.5°	157.5	152.9	140.8	123.2	101.0	83.4	70.4	63.9	64.9
70°	69.5	65.8	59.3	45.4	34.3	27.8	23.2	21.3	22.2
72.5°	25.9	25.0	21.3	17.6	14.8	12.0	11.1	11.1	11.1
75°	13.9	13.0	11.1	9.3	8.3	8.3	8.3	8.3	8.3
77.5°	10.2	9.3	8.3	7.4	6.5	5.6	5.6	5.6	5.6
80°	7.4	6.5	5.6	4.6	4.6	3.7	3.7	3.7	3.7
82.5°	4.6	4.6	3.7	2.8	2.8	1.9	1.9	1.9	1.9
85°	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)