

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: P247667

Luminaire Tested: **LD8B90D010 ER8B909730 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B909730 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6452.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

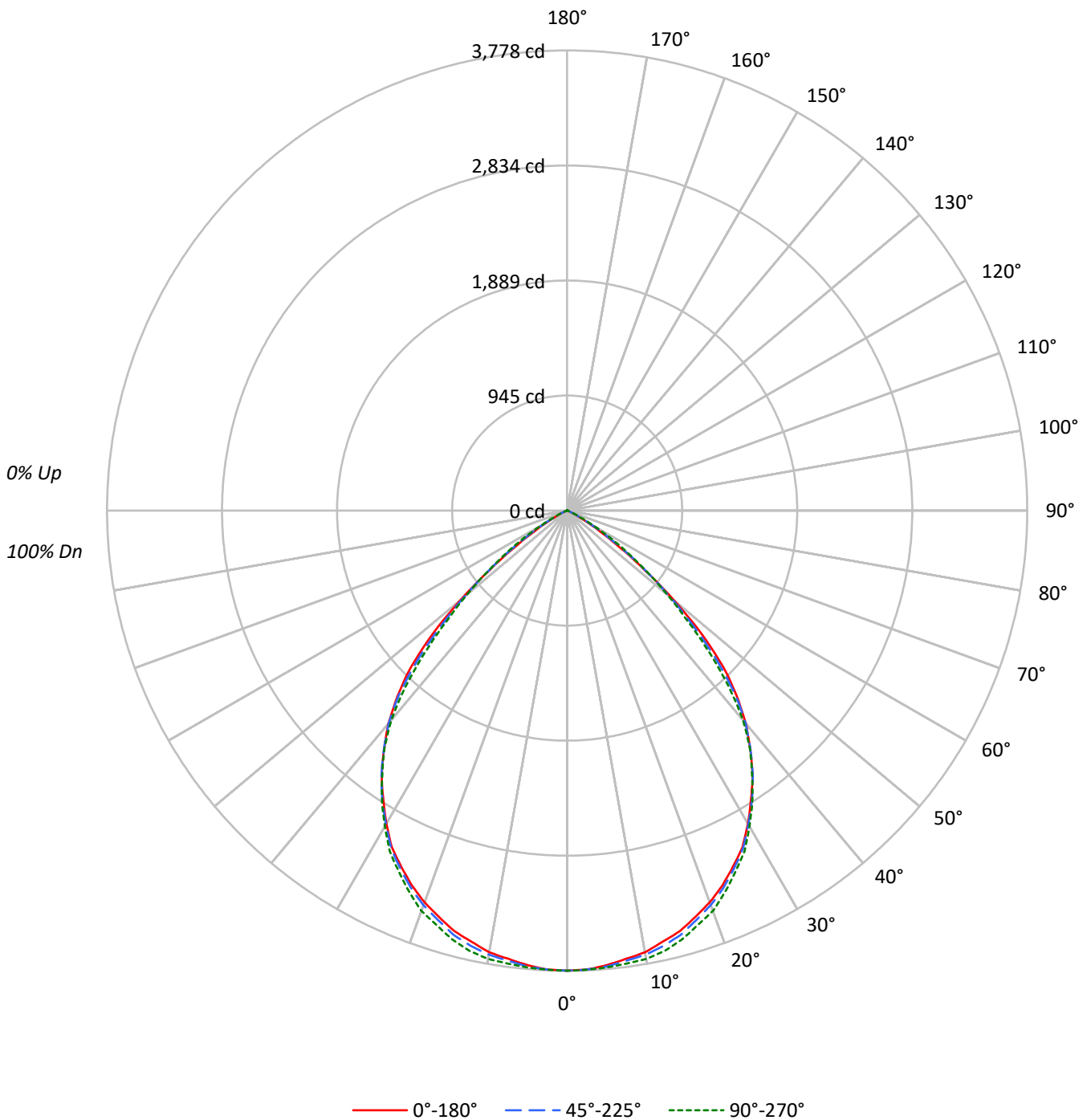
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	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°	356.8	5.5
10°-20°	1015.2	15.7
20°-30°	1491.5	23.1
30°-40°	1651.2	25.6
40°-50°	1315.9	20.4
50°-60°	539.2	8.4
60°-70°	79.4	1.2
70°-80°	1.1	0.0
80°-90°	1.6	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°	2863.5	44.4
0°-40°	4514.7	70.0
0°-60°	6369.8	98.7
0°-90°	6452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3778	3778	3778	3778	3778	
5°	3746	3753	3756	3762	3765	355
15°	3575	3578	3606	3640	3645	1006
25°	3224	3221	3242	3261	3271	1483
35°	2654	2651	2658	2655	2648	1650
45°	1810	1794	1737	1672	1657	1359
55°	533	551	579	612	613	512
65°	51	53	62	68	66	67
75°	0	0	0	0	0	2
85°	0	0	0	3	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3777.8	3777.8	3777.8	3777.8	3777.8
2.5°	3771.1	3772.0	3772.0	3767.8	3772.8
5°	3746.2	3752.9	3756.2	3762.0	3765.3
7.5°	3711.4	3709.7	3727.1	3747.9	3750.4
10°	3682.3	3679.0	3702.3	3729.6	3737.1
12.5°	3625.1	3629.2	3659.1	3687.3	3702.3
15°	3575.3	3577.8	3606.0	3640.0	3645.0
17.5°	3498.1	3505.6	3524.7	3560.4	3567.0
20°	3422.6	3426.0	3447.5	3476.6	3498.1
22.5°	3330.5	3336.3	3352.9	3378.7	3389.4
25°	3224.3	3221.0	3241.8	3260.8	3270.8
27.5°	3116.5	3110.7	3126.4	3144.7	3153.8
30°	2967.1	2965.5	2974.6	2986.2	2993.7
32.5°	2810.3	2814.4	2823.6	2826.9	2829.4
35°	2654.3	2651.0	2658.5	2655.1	2647.7
37.5°	2469.3	2471.8	2471.8	2468.4	2465.1
40°	2280.9	2283.4	2278.4	2260.2	2246.9
42.5°	2060.2	2061.9	2036.2	1995.5	1968.1
45°	1810.5	1793.9	1736.6	1671.9	1657.0
47.5°	1496.0	1467.8	1408.1	1359.1	1341.7
50°	1144.2	1123.5	1103.5	1077.8	1072.8
52.5°	802.3	813.1	820.6	828.9	826.4
55°	532.7	550.9	579.2	612.3	613.2
57.5°	320.3	341.0	376.7	413.2	430.6
60°	188.3	196.6	222.4	249.7	258.0
62.5°	102.1	104.5	116.2	143.5	139.4
65°	50.6	53.1	62.2	68.0	66.4
67.5°	24.9	27.4	29.0	37.3	30.7
70°	5.8	1.7	3.3	4.1	1.7
72.5°	0.0	0.0	1.7	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.7	0.0	0.0	0.0	3.3
80°	7.5	5.0	1.7	1.7	2.5
82.5°	2.5	0.8	2.5	0.8	0.0
85°	0.0	0.0	0.0	3.3	0.0
87.5°	4.1	0.8	0.8	2.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)