

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: P247715

Luminaire Tested: **LD8B90D010 ER8B909730 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B909730 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7182.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

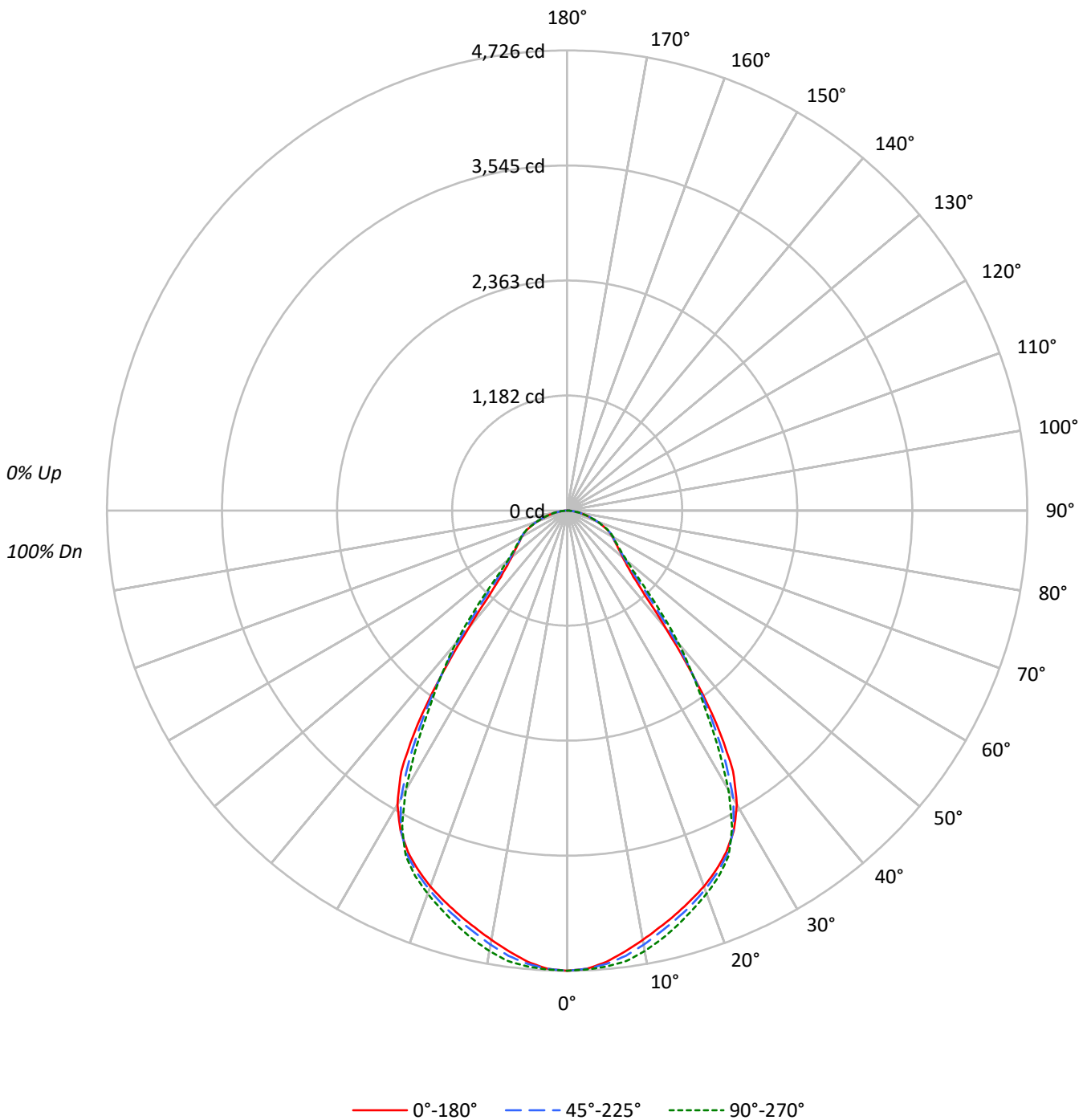
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78		
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63		
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57		
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51		
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	441.6	6.1
10°-20°	1225.3	17.1
20°-30°	1771.4	24.7
30°-40°	1585.3	22.1
40°-50°	857.9	11.9
50°-60°	571.8	8.0
60°-70°	437.9	6.1
70°-80°	232.1	3.2
80°-90°	58.7	0.8
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°	3438.3	47.9
0°-40°	5023.6	69.9
0°-60°	6453.3	89.9
0°-90°	7182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7182.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4726	4726	4726	4726	4726	
5°	4651	4653	4673	4691	4700	438
15°	4296	4304	4341	4384	4404	1212
25°	3868	3877	3892	3911	3918	1770
35°	2676	2649	2556	2482	2458	1620
45°	962	991	1053	1118	1143	792
55°	622	625	631	637	640	563
65°	443	445	448	451	451	434
75°	215	215	217	218	218	231
85°	50	50	50	51	50	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4726.3	4726.3	4726.3	4726.3	4726.3
2.5°	4710.5	4708.8	4709.7	4714.6	4717.1
5°	4650.8	4653.2	4673.2	4691.4	4699.7
7.5°	4566.9	4577.7	4611.8	4647.4	4665.7
10°	4477.3	4488.1	4527.1	4577.7	4593.5
12.5°	4385.2	4398.5	4433.4	4484.8	4503.9
15°	4295.6	4303.9	4341.3	4383.6	4403.5
17.5°	4203.5	4211.8	4245.8	4279.0	4294.8
20°	4107.3	4116.4	4142.1	4170.3	4187.8
22.5°	3996.9	4006.0	4027.6	4052.5	4068.3
25°	3868.3	3877.4	3892.4	3910.6	3918.1
27.5°	3705.7	3711.5	3697.4	3682.4	3669.2
30°	3485.0	3466.7	3410.3	3338.1	3309.9
32.5°	3171.3	3112.4	3003.7	2915.7	2883.4
35°	2675.9	2648.6	2555.6	2481.8	2457.7
37.5°	2098.4	2116.7	2110.1	2105.1	2110.1
40°	1564.9	1607.2	1698.5	1760.7	1780.6
42.5°	1184.9	1225.5	1328.4	1414.7	1444.6
45°	962.5	990.7	1053.0	1118.5	1142.6
47.5°	830.6	846.3	877.9	912.7	924.3
50°	745.9	752.6	768.3	788.3	794.9
52.5°	678.7	682.1	691.2	702.0	703.6
55°	622.3	624.8	630.6	637.2	639.7
57.5°	575.0	577.5	579.2	583.3	585.0
60°	537.7	537.7	541.0	544.3	546.0
62.5°	497.0	497.0	500.3	503.7	503.7
65°	443.1	444.7	448.1	451.4	451.4
67.5°	384.2	385.0	387.5	390.8	390.0
70°	325.3	325.3	327.8	329.4	330.2
72.5°	268.8	268.0	272.2	273.0	270.5
75°	214.9	214.9	217.4	218.2	218.2
77.5°	167.6	166.8	166.8	167.6	168.4
80°	122.8	123.6	122.8	124.5	126.1
82.5°	85.5	84.6	84.6	84.6	83.8
85°	49.8	49.8	49.8	50.6	49.8
87.5°	19.9	19.9	19.1	19.1	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)