

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 ER8B90930 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 ER8B90930 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: 8051.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

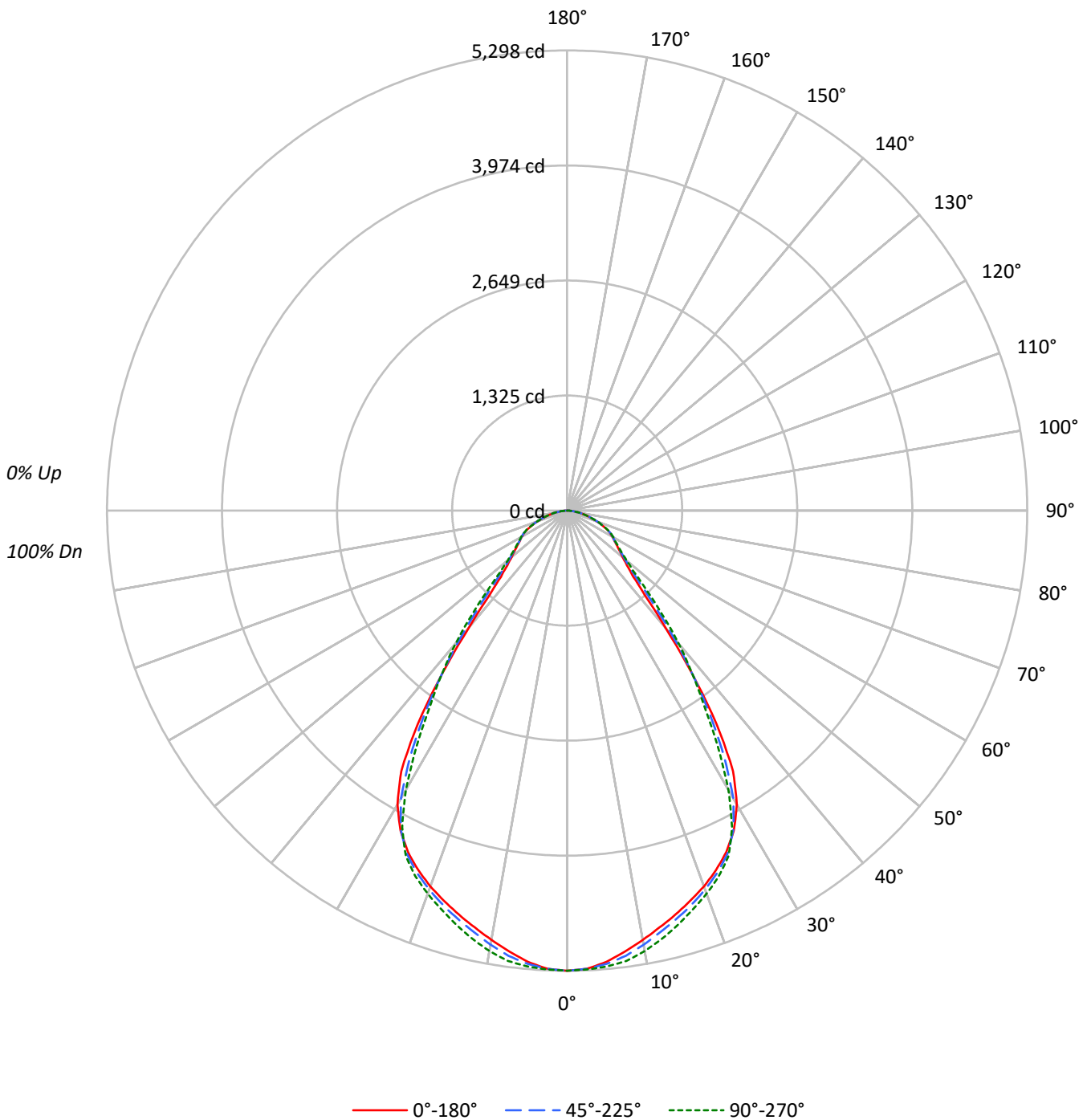
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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°	495.1	6.1
10°-20°	1373.6	17.1
20°-30°	1985.7	24.7
30°-40°	1777.1	22.1
40°-50°	961.7	11.9
50°-60°	641.0	8.0
60°-70°	490.9	6.1
70°-80°	260.2	3.2
80°-90°	65.8	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°	3854.4	47.9
0°-40°	5631.5	69.9
0°-60°	7234.2	89.9
0°-90°	8051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8051.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5298	5298	5298	5298	5298	
5°	5214	5216	5239	5259	5268	491
15°	4815	4825	4867	4914	4936	1359
25°	4336	4347	4363	4384	4392	1984
35°	3000	2969	2865	2782	2755	1816
45°	1079	1111	1180	1254	1281	888
55°	698	700	707	714	717	631
65°	497	498	502	506	506	487
75°	241	241	244	245	245	259
85°	56	56	56	57	56	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5298.2	5298.2	5298.2	5298.2	5298.2
2.5°	5280.5	5278.6	5279.6	5285.1	5287.9
5°	5213.5	5216.2	5238.7	5259.1	5268.4
7.5°	5119.5	5131.6	5169.8	5209.7	5230.2
10°	5019.1	5031.2	5074.9	5131.6	5149.3
12.5°	4915.8	4930.7	4969.8	5027.5	5048.9
15°	4815.4	4824.7	4866.6	4914.0	4936.3
17.5°	4712.1	4721.4	4759.5	4796.8	4814.5
20°	4604.3	4614.5	4643.3	4674.9	4694.5
22.5°	4480.5	4490.7	4514.9	4542.9	4560.6
25°	4336.4	4346.6	4363.4	4383.8	4392.2
27.5°	4154.1	4160.6	4144.8	4128.0	4113.2
30°	3906.7	3886.2	3822.9	3742.0	3710.4
32.5°	3555.0	3489.0	3367.1	3268.5	3232.3
35°	2999.7	2969.1	2864.8	2782.1	2755.1
37.5°	2352.3	2372.8	2365.4	2359.8	2365.4
40°	1754.3	1801.7	1904.0	1973.7	1996.1
42.5°	1328.3	1373.8	1489.1	1585.9	1619.4
45°	1079.0	1110.6	1180.4	1253.8	1280.9
47.5°	931.1	948.7	984.1	1023.1	1036.1
50°	836.2	843.7	861.3	883.7	891.1
52.5°	760.8	764.6	774.8	786.9	788.7
55°	697.6	700.4	706.9	714.3	717.1
57.5°	644.6	647.4	649.3	653.9	655.8
60°	602.8	602.8	606.5	610.2	612.1
62.5°	557.1	557.1	560.8	564.6	564.6
65°	496.7	498.5	502.3	506.0	506.0
67.5°	430.7	431.6	434.4	438.1	437.2
70°	364.7	364.7	367.5	369.3	370.2
72.5°	301.3	300.4	305.1	306.0	303.2
75°	240.9	240.9	243.7	244.6	244.6
77.5°	187.9	187.0	187.0	187.9	188.8
80°	137.7	138.6	137.7	139.6	141.4
82.5°	95.8	94.8	94.8	94.8	93.9
85°	55.8	55.8	55.8	56.7	55.8
87.5°	22.3	22.3	21.4	21.4	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)