

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: P247670

Luminaire Tested: **LD8B80D010 ER8B80827 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247670  
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: LD8B80D010 ER8B80827 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8120.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

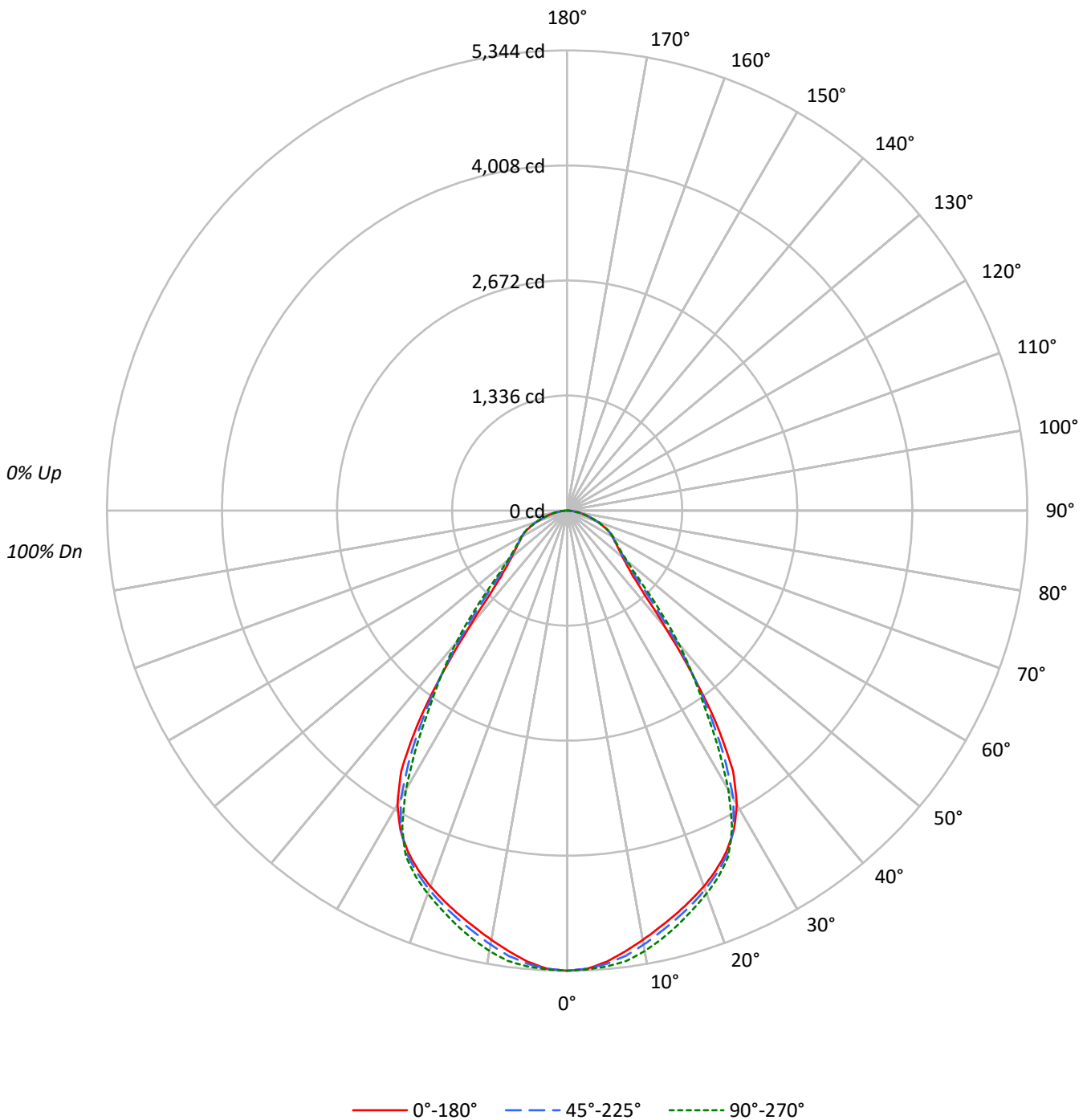
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78				78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57				57
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43				43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

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

	0°	45°	90°
0°	164774	164774	164774
5°	162763	163546	164475
10°	158505	160267	162616
15°	155043	156690	158937
20°	152385	153677	155371
25°	148804	149730	150720
30°	140294	137289	133247
35°	113889	108769	104602
40°	71221	77300	81039
45°	47455	51917	56334
50°	40460	41674	43113
55°	37827	38332	38886
60°	37491	37725	38071
65°	36555	36964	37234
70°	33152	33413	33666
75°	28952	29285	29392
80°	24648	24648	25323
85°	19919	19919	19919



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.3	6.1
10°-20°	1385.3	17.1
20°-30°	2002.7	24.7
30°-40°	1792.3	22.1
40°-50°	970.0	11.9
50°-60°	646.5	8.0
60°-70°	495.1	6.1
70°-80°	262.4	3.2
80°-90°	66.4	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°	3887.4	47.9
0°-40°	5679.7	69.9
0°-60°	7296.2	89.9
0°-90°	8120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8120.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5344	5344	5344	5344	5344	
5°	5258	5261	5284	5304	5314	496
15°	4857	4866	4908	4956	4979	1370
25°	4374	4384	4401	4421	4430	2001
35°	3025	2994	2889	2806	2779	1831
45°	1088	1120	1190	1265	1292	895
55°	704	706	713	720	723	636
65°	501	503	507	510	510	491
75°	243	243	246	247	247	261
85°	56	56	56	57	56	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5343.5	5343.5	5343.5	5343.5	5343.5
2.5°	5325.7	5323.8	5324.8	5330.4	5333.2
5°	5258.2	5261.0	5283.5	5304.1	5313.5
7.5°	5163.4	5175.6	5214.1	5254.4	5275.0
10°	5062.1	5074.3	5118.4	5175.6	5193.4
12.5°	4958.0	4973.0	5012.4	5070.5	5092.1
15°	4856.6	4866.0	4908.2	4956.1	4978.6
17.5°	4752.5	4761.9	4800.4	4837.9	4855.7
20°	4643.7	4654.0	4683.1	4715.0	4734.7
22.5°	4518.9	4529.2	4553.6	4581.8	4599.6
25°	4373.5	4383.8	4400.7	4421.4	4429.8
27.5°	4189.6	4196.2	4180.3	4163.4	4148.4
30°	3940.1	3919.5	3855.7	3774.1	3742.2
32.5°	3585.5	3518.9	3396.0	3296.6	3260.0
35°	3025.4	2994.5	2889.4	2805.9	2778.7
37.5°	2372.5	2393.1	2385.6	2380.0	2385.6
40°	1769.3	1817.1	1920.3	1990.7	2013.2
42.5°	1339.6	1385.6	1501.9	1599.5	1633.3
45°	1088.2	1120.1	1190.5	1264.6	1291.8
47.5°	939.1	956.9	992.5	1031.9	1045.1
50°	843.4	850.9	868.7	891.2	898.7
52.5°	767.4	771.1	781.5	793.6	795.5
55°	703.6	706.4	713.0	720.5	723.3
57.5°	650.1	652.9	654.8	659.5	661.4
60°	607.9	607.9	611.7	615.4	617.3
62.5°	561.9	561.9	565.7	569.4	569.4
65°	501.0	502.8	506.6	510.3	510.3
67.5°	434.3	435.3	438.1	441.9	440.9
70°	367.7	367.7	370.6	372.4	373.4
72.5°	304.0	303.0	307.7	308.6	305.8
75°	243.0	243.0	245.8	246.7	246.7
77.5°	189.5	188.6	188.6	189.5	190.4
80°	138.8	139.8	138.8	140.7	142.6
82.5°	96.6	95.7	95.7	95.7	94.8
85°	56.3	56.3	56.3	57.2	56.3
87.5°	22.5	22.5	21.6	21.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)