

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: P247342

Luminaire Tested: **LD8B80D010 ER8B80835 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80835 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8966.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

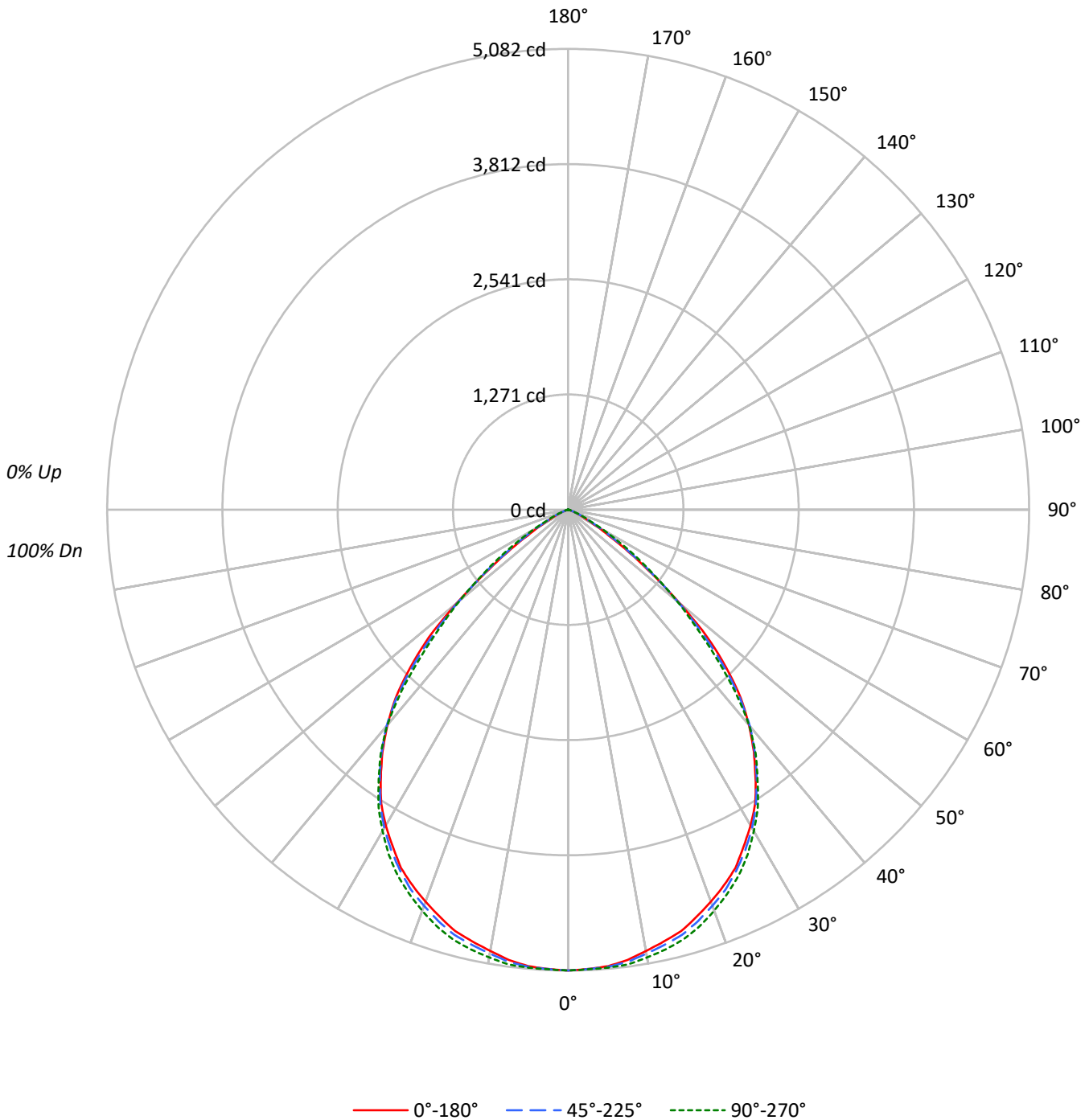
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

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

	0°	45°	90°
0°	156713	156713	156713
5°	156383	156631	156909
10°	154716	155624	157002
15°	153622	154963	156623
20°	150954	152529	154399
25°	148349	149301	151377
30°	143214	144353	145706
35°	135519	136347	137062
40°	124787	125391	125069
45°	107584	104749	100563
50°	76804	75653	74742
55°	44084	46719	50590
60°	20907	24484	28308
65°	9850	11893	13644
70°	4598	5139	5860
75°	2145	3098	3574
80°	1776	1598	2486
85°	708	1769	1061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.2	5.4
10°-20°	1366.4	15.2
20°-30°	2018.7	22.5
30°-40°	2255.7	25.2
40°-50°	1821.1	20.3
50°-60°	810.0	9.0
60°-70°	182.5	2.0
70°-80°	28.2	0.3
80°-90°	3.3	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°	3865.3	43.1
0°-40°	6120.9	68.3
0°-60°	8752.0	97.6
0°-90°	8966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8966.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5082	5082	5082	5082	5082	
5°	5052	5051	5060	5061	5069	479
15°	4812	4815	4854	4890	4906	1353
25°	4360	4360	4388	4424	4449	1999
35°	3600	3598	3622	3626	3641	2244
45°	2467	2448	2402	2317	2306	1865
55°	820	832	869	914	941	771
65°	135	152	163	177	187	157
75°	18	25	26	25	30	23
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5082.1	5082.1	5082.1	5082.1	5082.1
2.5°	5069.1	5066.1	5071.1	5068.1	5073.1
5°	5052.1	5051.1	5060.1	5061.1	5069.1
7.5°	5008.1	5009.1	5028.1	5042.1	5058.1
10°	4941.1	4945.1	4970.1	5001.1	5014.1
12.5°	4877.1	4882.1	4914.1	4957.1	4967.1
15°	4812.1	4815.1	4854.1	4890.1	4906.1
17.5°	4706.1	4726.1	4756.1	4797.1	4818.1
20°	4600.1	4614.1	4648.1	4693.1	4705.1
22.5°	4484.1	4499.1	4533.1	4570.1	4583.1
25°	4360.1	4360.1	4388.1	4424.1	4449.1
27.5°	4187.1	4208.1	4228.1	4260.1	4285.1
30°	4022.1	4030.1	4054.1	4080.1	4092.1
32.5°	3839.0	3840.0	3851.0	3880.0	3891.0
35°	3600.0	3598.0	3622.0	3626.0	3641.0
37.5°	3361.0	3371.0	3380.0	3394.0	3395.0
40°	3100.0	3105.0	3115.0	3100.0	3107.0
42.5°	2816.0	2809.0	2790.0	2745.0	2726.0
45°	2467.0	2448.0	2402.0	2317.0	2306.0
47.5°	2082.0	2035.0	1979.0	1916.0	1904.0
50°	1601.0	1605.0	1577.0	1556.0	1558.0
52.5°	1167.0	1181.0	1188.0	1208.0	1219.0
55°	820.0	832.0	869.0	914.0	941.0
57.5°	531.0	554.0	602.0	653.0	672.0
60°	339.0	354.0	397.0	434.0	459.0
62.5°	222.0	227.0	251.0	285.0	286.0
65°	135.0	152.0	163.0	177.0	187.0
67.5°	88.0	88.0	98.0	111.0	114.0
70°	51.0	52.0	57.0	62.0	65.0
72.5°	28.0	31.0	34.0	39.0	44.0
75°	18.0	25.0	26.0	25.0	30.0
77.5°	12.0	12.0	10.0	17.0	18.0
80°	10.0	7.0	9.0	13.0	14.0
82.5°	0.0	1.0	1.0	2.0	0.0
85°	2.0	3.0	5.0	11.0	3.0
87.5°	0.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)