

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: P247150

Luminaire Tested: **LD8B80D010 ER8B80835 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80835 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8434.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

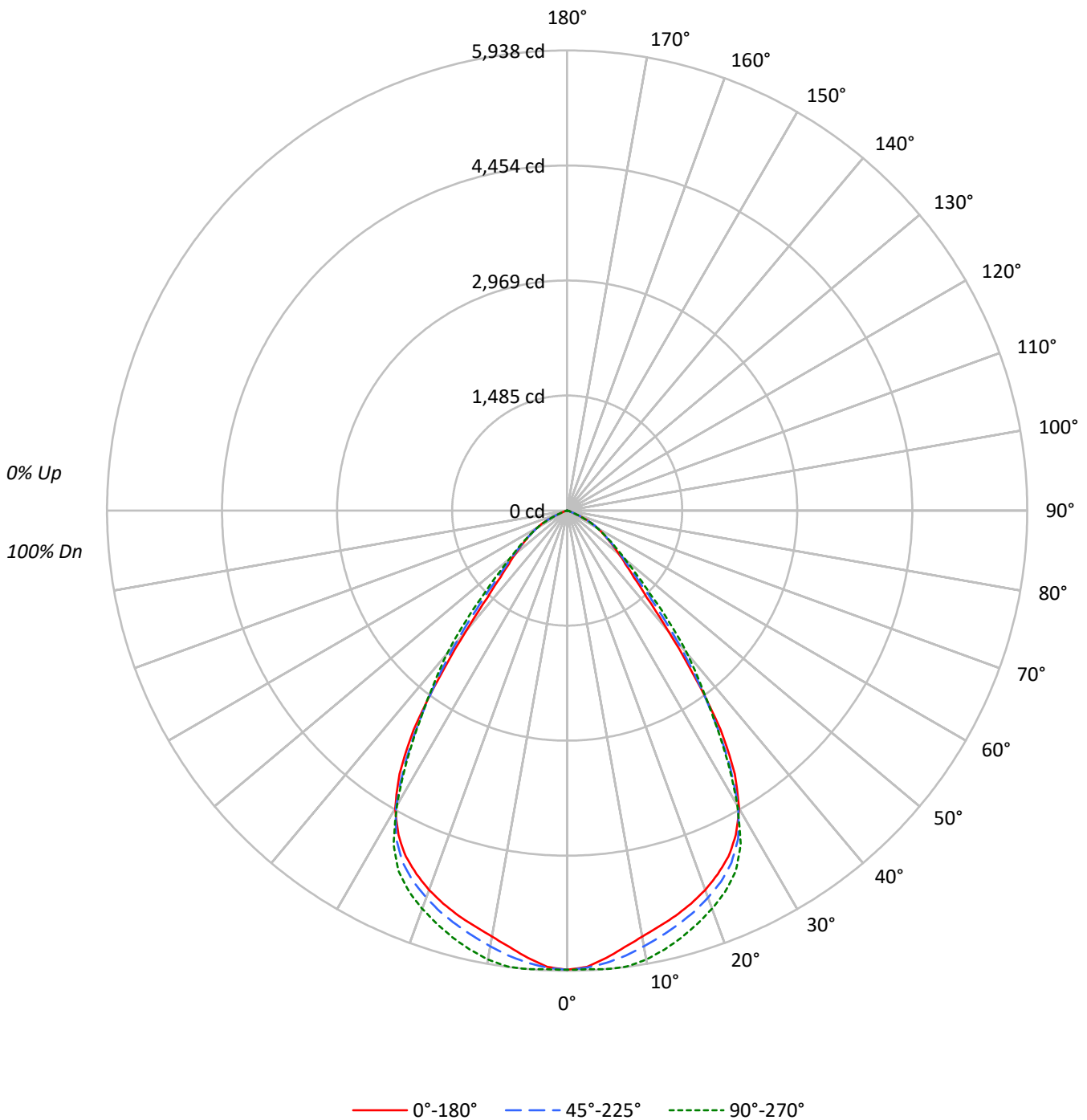
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67				
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61				
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

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

	0°	45°	90°
0°	182714	182714	182714
5°	179357	181307	183815
10°	174762	178738	184155
15°	172780	176582	182073
20°	170974	174420	179408
25°	167610	170638	174925
30°	158030	157318	156356
35°	129993	125513	124798
40°	81398	89811	97097
45°	53120	59226	65636
50°	41880	43895	46773
55°	34139	34730	35805
60°	27938	27753	27629
65°	18095	17585	16636
70°	6221	5770	5319
75°	2145	2025	1906
80°	888	710	710
85°	354	354	354



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.0	6.6
10°-20°	1563.8	18.5
20°-30°	2287.1	27.1
30°-40°	2072.4	24.6
40°-50°	1102.0	13.1
50°-60°	588.1	7.0
60°-70°	239.9	2.8
70°-80°	24.2	0.3
80°-90°	1.4	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°	4406.0	52.2
0°-40°	6478.4	76.8
0°-60°	8168.5	96.9
0°-90°	8434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5925	5925	5925	5925	5925	
5°	5794	5809	5857	5910	5938	546
15°	5412	5443	5531	5645	5703	1527
25°	4926	4947	5015	5101	5141	2251
35°	3453	3405	3334	3309	3315	2075
45°	1218	1254	1358	1466	1505	996
55°	635	634	646	655	666	576
65°	248	247	241	227	228	247
75°	18	18	17	16	16	26
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5925.3	5925.3	5925.3	5925.3	5925.3
2.5°	5893.3	5892.3	5903.3	5916.3	5923.3
5°	5794.3	5809.3	5857.3	5910.3	5938.3
7.5°	5682.3	5710.3	5793.3	5884.3	5933.3
10°	5581.3	5617.3	5708.3	5827.3	5881.3
12.5°	5494.2	5529.3	5621.3	5743.3	5802.3
15°	5412.2	5443.2	5531.3	5645.3	5703.3
17.5°	5317.2	5347.2	5432.2	5540.3	5590.3
20°	5210.2	5235.2	5315.2	5416.2	5467.2
22.5°	5077.2	5104.2	5185.2	5278.2	5326.2
25°	4926.2	4947.2	5015.2	5101.2	5141.2
27.5°	4716.2	4735.2	4775.2	4821.2	4851.2
30°	4438.2	4433.2	4418.2	4404.2	4391.2
32.5°	4028.2	3980.2	3907.2	3861.2	3863.2
35°	3453.2	3405.2	3334.2	3309.1	3315.2
37.5°	2698.1	2734.1	2763.1	2811.1	2834.1
40°	2022.1	2084.1	2231.1	2359.1	2412.1
42.5°	1520.1	1581.1	1735.1	1870.1	1943.1
45°	1218.1	1254.1	1358.1	1466.1	1505.1
47.5°	1020.0	1036.0	1096.0	1165.1	1199.1
50°	873.0	883.0	915.0	953.0	975.0
52.5°	748.0	752.0	768.0	790.0	804.0
55°	635.0	634.0	646.0	655.0	666.0
57.5°	537.0	536.0	536.0	539.0	546.0
60°	453.0	450.0	450.0	446.0	448.0
62.5°	369.0	366.0	359.0	354.0	352.0
65°	248.0	247.0	241.0	227.0	228.0
67.5°	129.0	128.0	122.0	118.0	116.0
70°	69.0	67.0	64.0	61.0	59.0
72.5°	35.0	34.0	33.0	31.0	31.0
75°	18.0	18.0	17.0	16.0	16.0
77.5°	9.0	9.0	8.0	8.0	8.0
80°	5.0	5.0	4.0	4.0	4.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)