

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: P247630

Luminaire Tested: **LD8B80D010 ER8B80835 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80835 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7776.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

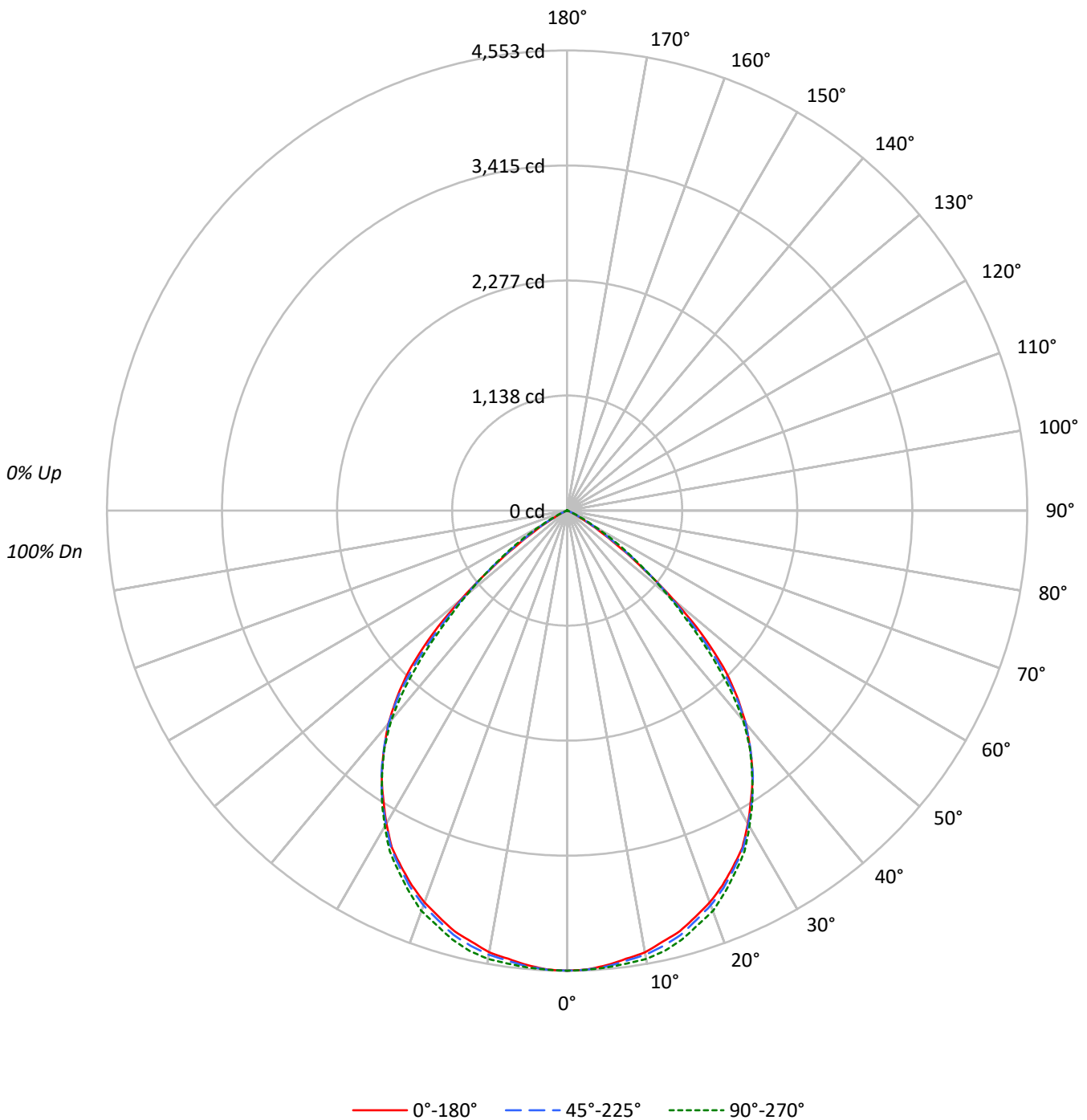
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	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°	140398	140398	140398
5°	139758	140129	140470
10°	138963	139714	141029
15°	137561	138742	140243
20°	135363	136348	138349
25°	132218	132932	134123
30°	127330	127650	128469
35°	120424	120612	120123
40°	110658	110537	109008
45°	95155	91274	87087
50°	66154	63804	62029
55°	34515	37526	39730
60°	14000	16528	19180
65°	4451	5472	5837
70°	631	361	180
75°	0	0	0
80°	1598	355	533
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.0	5.5
10°-20°	1223.6	15.7
20°-30°	1797.5	23.1
30°-40°	1990.1	25.6
40°-50°	1586.0	20.4
50°-60°	649.9	8.4
60°-70°	95.7	1.2
70°-80°	1.4	0.0
80°-90°	1.9	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°	3451.1	44.4
0°-40°	5441.2	70.0
0°-60°	7677.0	98.7
0°-90°	7776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7776.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4553	4553	4553	4553	4553	
5°	4515	4523	4527	4534	4538	428
15°	4309	4312	4346	4387	4393	1213
25°	3886	3882	3907	3930	3942	1787
35°	3199	3195	3204	3200	3191	1988
45°	2182	2162	2093	2015	1997	1637
55°	642	664	698	738	739	618
65°	61	64	75	82	80	81
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4553	4553	4553	4553	4553
2.5°	4545	4546	4546	4541	4547
5°	4515	4523	4527	4534	4538
7.5°	4473	4471	4492	4517	4520
10°	4438	4434	4462	4495	4504
12.5°	4369	4374	4410	4444	4462
15°	4309	4312	4346	4387	4393
17.5°	4216	4225	4248	4291	4299
20°	4125	4129	4155	4190	4216
22.5°	4014	4021	4041	4072	4085
25°	3886	3882	3907	3930	3942
27.5°	3756	3749	3768	3790	3801
30°	3576	3574	3585	3599	3608
32.5°	3387	3392	3403	3407	3410
35°	3199	3195	3204	3200	3191
37.5°	2976	2979	2979	2975	2971
40°	2749	2752	2746	2724	2708
42.5°	2483	2485	2454	2405	2372
45°	2182	2162	2093	2015	1997
47.5°	1803	1769	1697	1638	1617
50°	1379	1354	1330	1299	1293
52.5°	967	980	989	999	996
55°	642	664	698	738	739
57.5°	386	411	454	498	519
60°	227	237	268	301	311
62.5°	123	126	140	173	168
65°	61	64	75	82	80
67.5°	30	33	35	45	37
70°	7	2	4	5	2
72.5°	0	0	2	0	0
75°	0	0	0	0	0
77.5°	2	0	0	0	4
80°	9	6	2	2	3
82.5°	3	1	3	1	0
85°	0	0	0	4	0
87.5°	5	1	1	3	5
90°	0	0	0	0	0

(END OF REPORT)