

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: P247246

Luminaire Tested: **LD8B80D010 ER8B80835 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80835 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8250.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

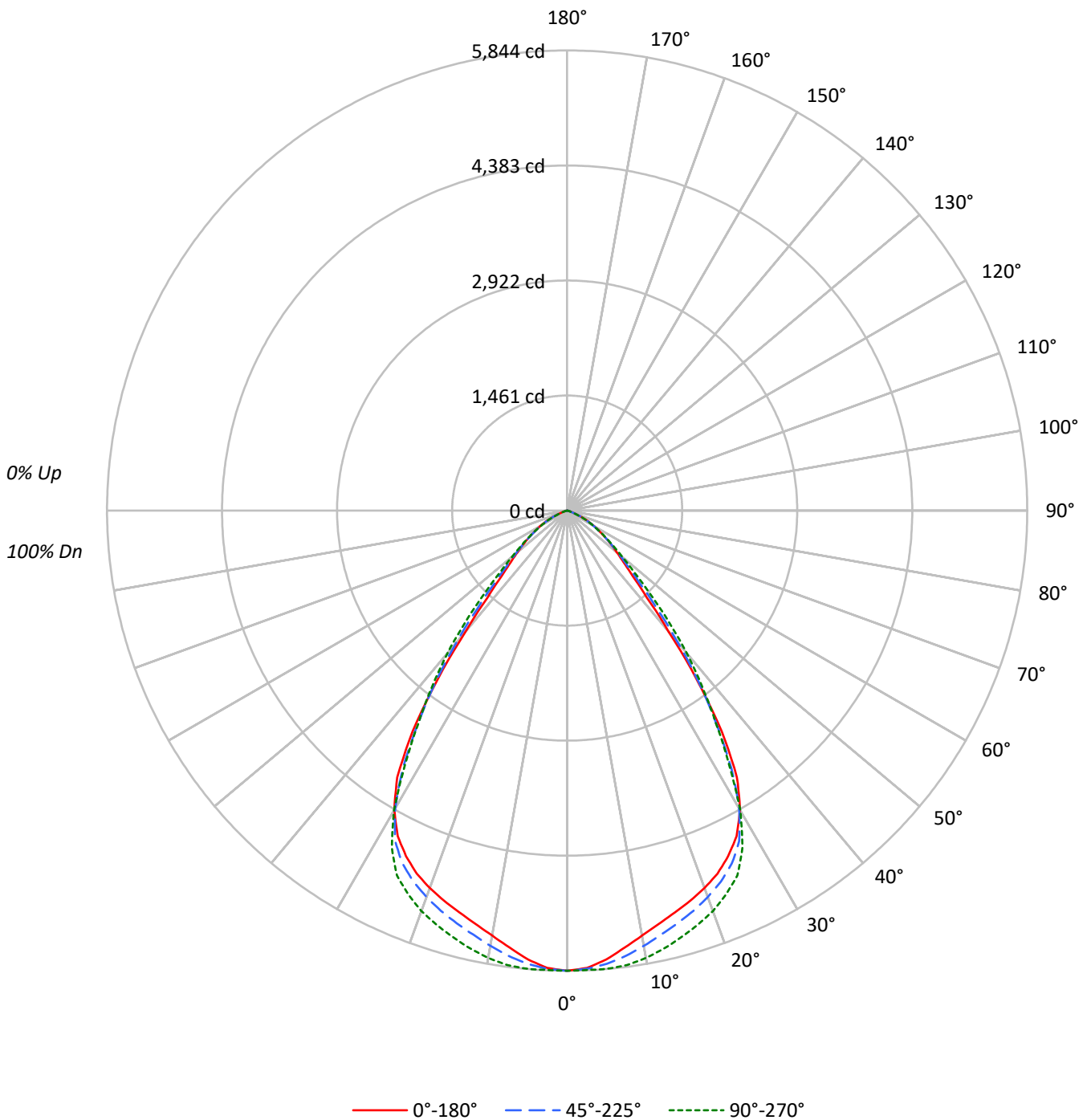
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	180211	180211	180211
5°	177122	178825	180806
10°	171593	175757	180642
15°	168690	173160	179065
20°	167361	171398	177600
25°	164714	168355	174003
30°	156281	155640	156637
35°	128822	124267	123966
40°	80709	87915	95205
45°	51154	56866	64018
50°	39386	40921	43799
55°	31182	31074	32203
60°	24299	23806	23682
65°	16344	15687	15250
70°	7483	6852	6491
75°	3574	3217	2979
80°	1776	1598	1598
85°	1061	1061	708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.5	6.6
10°-20°	1534.7	18.6
20°-30°	2260.2	27.4
30°-40°	2055.8	24.9
40°-50°	1064.2	12.9
50°-60°	533.1	6.5
60°-70°	217.1	2.6
70°-80°	34.6	0.4
80°-90°	3.7	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°	4341.4	52.6
0°-40°	6397.2	77.5
0°-60°	7994.5	96.9
0°-90°	8250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5844	5844	5844	5844	5844	
5°	5722	5737	5777	5821	5841	538
15°	5284	5320	5424	5549	5609	1493
25°	4841	4874	4948	5061	5114	2216
35°	3422	3400	3301	3273	3293	2064
45°	1173	1214	1304	1405	1468	966
55°	580	578	578	589	599	527
65°	224	223	215	212	209	226
75°	30	29	27	25	25	38
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5844.1	5844.1	5844.1	5844.1	5844.1
2.5°	5813.1	5816.1	5824.1	5833.1	5840.1
5°	5722.1	5737.1	5777.1	5821.1	5841.1
7.5°	5598.1	5631.1	5704.1	5786.1	5822.1
10°	5480.1	5518.1	5613.1	5723.1	5769.1
12.5°	5376.1	5413.1	5516.1	5639.1	5696.1
15°	5284.1	5320.1	5424.1	5549.1	5609.1
17.5°	5197.1	5230.1	5329.1	5454.1	5515.1
20°	5100.1	5129.1	5223.1	5344.1	5412.1
22.5°	4990.1	5012.1	5100.1	5215.1	5275.1
25°	4841.1	4874.1	4948.1	5061.1	5114.1
27.5°	4659.1	4680.1	4731.1	4800.1	4822.1
30°	4389.1	4388.1	4371.1	4371.1	4399.1
32.5°	4014.1	3966.1	3885.1	3836.1	3832.1
35°	3422.1	3400.1	3301.1	3273.1	3293.1
37.5°	2700.1	2715.1	2740.1	2780.1	2816.1
40°	2005.0	2043.0	2184.0	2310.0	2365.1
42.5°	1496.0	1545.0	1689.0	1827.0	1894.0
45°	1173.0	1214.0	1304.0	1405.0	1468.0
47.5°	970.0	991.0	1039.0	1107.0	1139.0
50°	821.0	831.0	853.0	888.0	913.0
52.5°	697.0	693.0	705.0	728.0	737.0
55°	580.0	578.0	578.0	589.0	599.0
57.5°	481.0	478.0	472.0	477.0	480.0
60°	394.0	391.0	386.0	385.0	384.0
62.5°	317.0	312.0	302.0	300.0	300.0
65°	224.0	223.0	215.0	212.0	209.0
67.5°	139.0	135.0	128.0	122.0	121.0
70°	83.0	82.0	76.0	72.0	72.0
72.5°	50.0	48.0	45.0	43.0	42.0
75°	30.0	29.0	27.0	25.0	25.0
77.5°	18.0	17.0	16.0	15.0	15.0
80°	10.0	10.0	9.0	9.0	9.0
82.5°	6.0	6.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)