

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: P247336

Luminaire Tested: **LD8B100D010 ER8B100827 8LBSOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247336  
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: LD8B100D010 ER8B100827 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10930.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

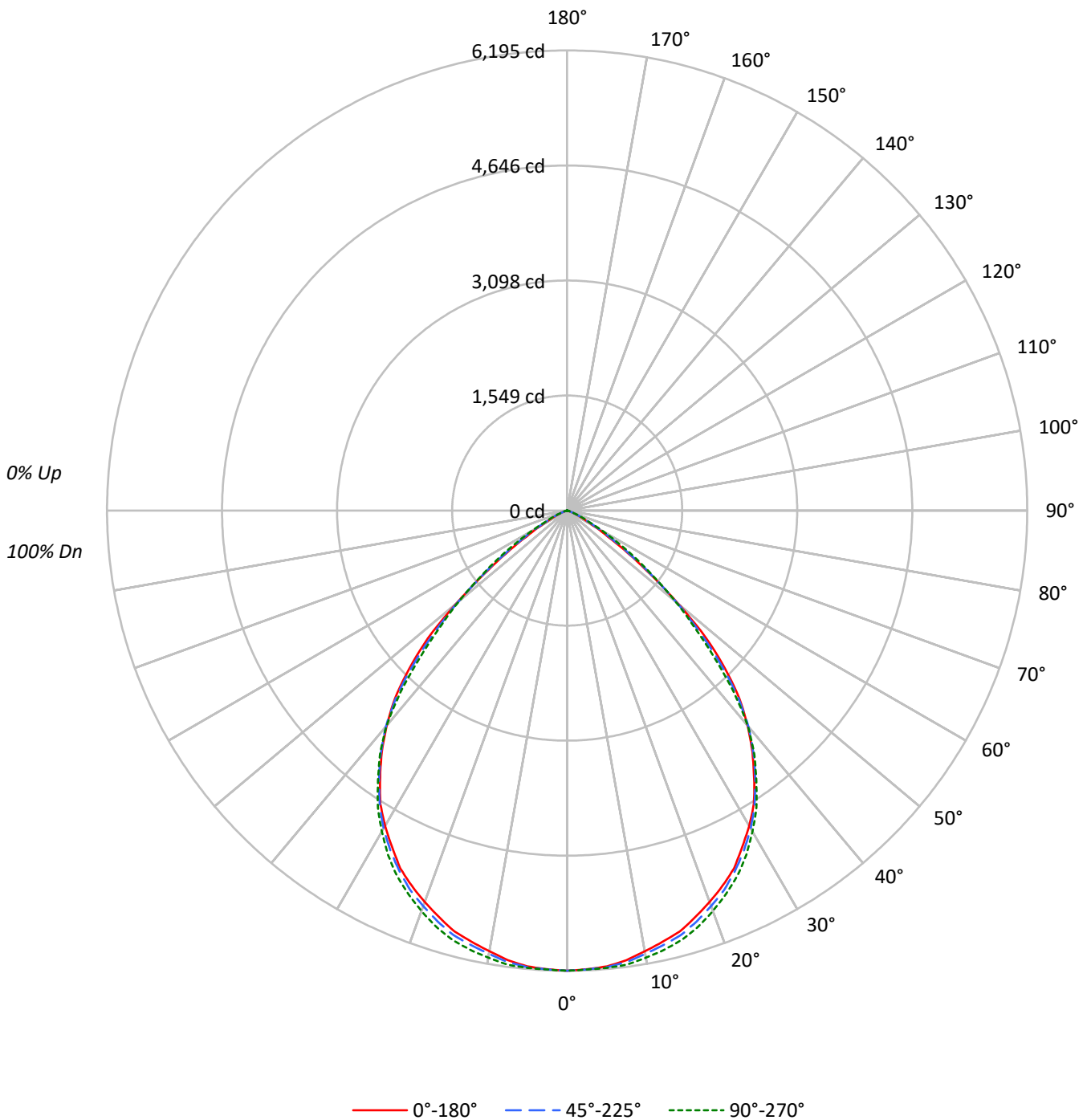
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247336

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBS0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P247336

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBS0WMH

**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°	191040	191040	191040
5°	190637	190940	191278
10°	188605	189713	191392
15°	187270	188904	190928
20°	184018	185938	188219
25°	180842	182005	184533
30°	174583	175972	177621
35°	165205	166218	167087
40°	152124	152860	152466
45°	131150	127696	122594
50°	93628	92228	91115
55°	53740	56955	61670
60°	25489	29850	34512
65°	12010	14498	16636
70°	5608	6266	7141
75°	2609	3777	4361
80°	2166	1953	3037
85°	849	2158	1309



TEST NUMBER: P247336

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBS0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.4	5.4
10°-20°	1665.7	15.2
20°-30°	2460.8	22.5
30°-40°	2749.8	25.2
40°-50°	2220.0	20.3
50°-60°	987.4	9.0
60°-70°	222.4	2.0
70°-80°	34.4	0.3
80°-90°	4.1	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°	4711.9	43.1
0°-40°	7461.7	68.3
0°-60°	10669.1	97.6
0°-90°	10930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6195	6195	6195	6195	6195	
5°	6159	6158	6168	6170	6179	584
15°	5866	5870	5917	5961	5981	1650
25°	5315	5315	5349	5393	5424	2437
35°	4389	4386	4416	4420	4439	2736
45°	3007	2984	2928	2825	2811	2274
55°	1000	1014	1059	1114	1147	940
65°	165	185	199	216	228	191
75°	22	30	32	30	37	28
85°	2	4	6	13	4	2
90°	0	0	0	0	0	



TEST NUMBER: P247336

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBS0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6195.3	6195.3	6195.3	6195.3	6195.3
2.5°	6179.4	6175.8	6181.9	6178.2	6184.3
5°	6158.7	6157.5	6168.5	6169.7	6179.4
7.5°	6105.1	6106.3	6129.5	6146.5	6166.0
10°	6023.4	6028.3	6058.8	6096.5	6112.4
12.5°	5945.4	5951.5	5990.5	6042.9	6055.1
15°	5866.1	5869.8	5917.3	5961.2	5980.7
17.5°	5736.9	5761.3	5797.9	5847.9	5873.5
20°	5607.7	5624.8	5666.2	5721.1	5735.7
22.5°	5466.3	5484.6	5526.0	5571.1	5587.0
25°	5315.1	5315.1	5349.3	5393.1	5423.6
27.5°	5104.2	5129.8	5154.2	5193.2	5223.7
30°	4903.1	4912.8	4942.1	4973.8	4988.4
32.5°	4680.0	4681.2	4694.6	4730.0	4743.4
35°	4388.6	4386.2	4415.5	4420.3	4438.6
37.5°	4097.3	4109.5	4120.4	4137.5	4138.7
40°	3779.1	3785.2	3797.4	3779.1	3787.6
42.5°	3432.9	3424.4	3401.2	3346.3	3323.2
45°	3007.4	2984.3	2928.2	2824.6	2811.2
47.5°	2538.1	2480.8	2412.5	2335.7	2321.1
50°	1951.7	1956.6	1922.5	1896.9	1899.3
52.5°	1422.6	1439.7	1448.2	1472.6	1486.0
55°	999.6	1014.3	1059.4	1114.2	1147.1
57.5°	647.3	675.4	733.9	796.0	819.2
60°	413.3	431.5	484.0	529.1	559.6
62.5°	270.6	276.7	306.0	347.4	348.7
65°	164.6	185.3	198.7	215.8	228.0
67.5°	107.3	107.3	119.5	135.3	139.0
70°	62.2	63.4	69.5	75.6	79.2
72.5°	34.1	37.8	41.4	47.5	53.6
75°	21.9	30.5	31.7	30.5	36.6
77.5°	14.6	14.6	12.2	20.7	21.9
80°	12.2	8.5	11.0	15.8	17.1
82.5°	0.0	1.2	1.2	2.4	0.0
85°	2.4	3.7	6.1	13.4	3.7
87.5°	0.0	3.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)