

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: P247220

Luminaire Tested: **LD8B100D010 ER8B100935 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100935 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10149.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

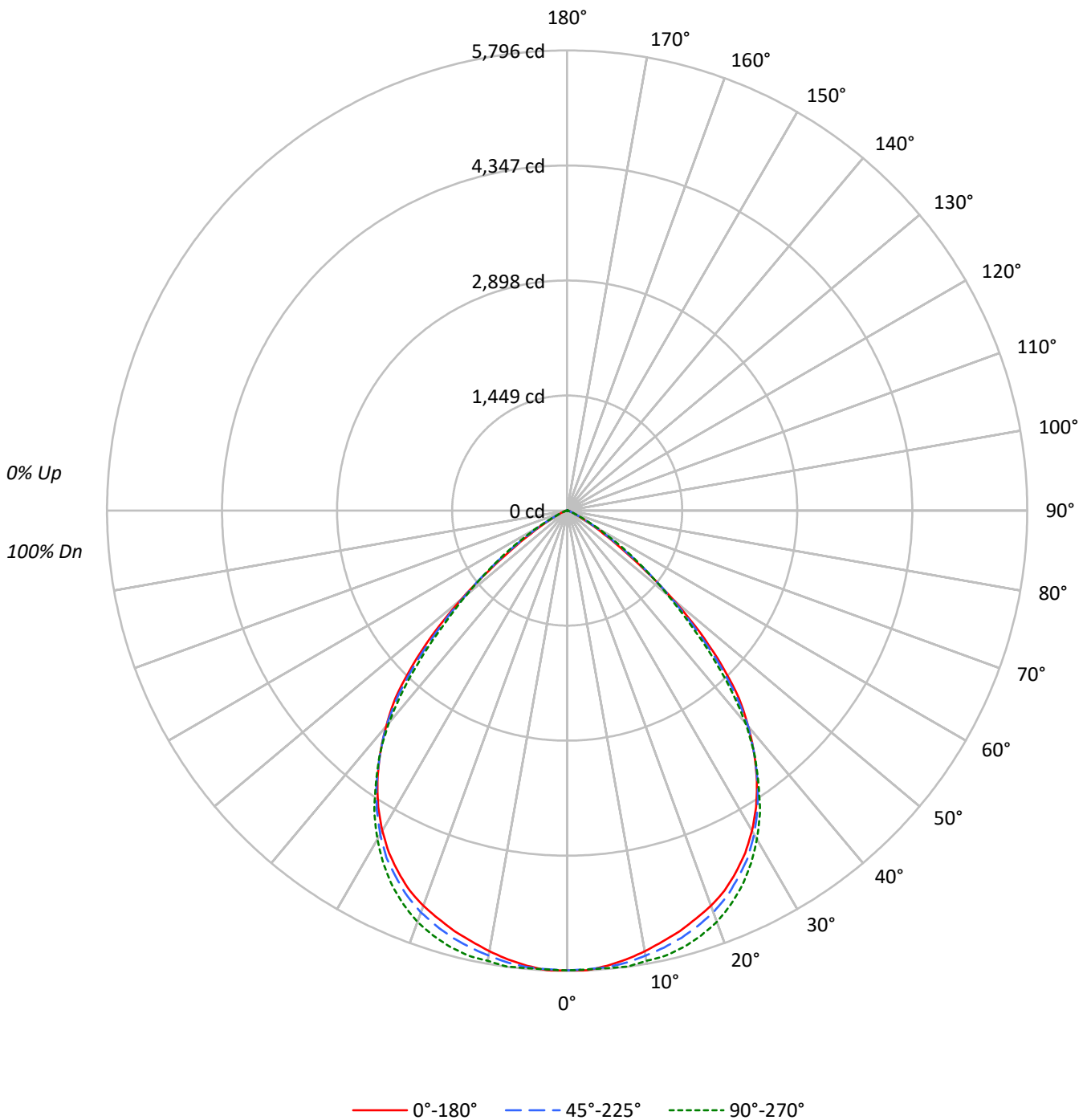
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247220

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBS0H

### Luminous Intensity Polar Plot





TEST NUMBER: P247220

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBS0H

**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				100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	178598	178598	178598
5°	178147	178664	179042
10°	176462	178231	180313
15°	175062	177824	181645
20°	173839	176714	180970
25°	171117	173496	177340
30°	165820	167633	170200
35°	156826	157533	158117
40°	142849	142716	140796
45°	120104	116476	111452
50°	83420	81559	79376
55°	44627	49332	52256
60°	21598	24540	27679
65°	9464	9544	9945
70°	5094	4697	4598
75°	4492	4098	2907
80°	195	781	0
85°	389	389	1946



TEST NUMBER: P247220

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBS0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.7	5.4
10°-20°	1573.4	15.5
20°-30°	2347.7	23.1
30°-40°	2600.1	25.6
40°-50°	2027.7	20.0
50°-60°	849.9	8.4
60°-70°	170.2	1.7
70°-80°	27.1	0.3
80°-90°	4.2	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°	4469.8	44.0
0°-40°	7069.9	69.7
0°-60°	9947.4	98.0
0°-90°	10149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5792	5792	5792	5792	5792	
5°	5755	5760	5772	5787	5784	546
15°	5484	5508	5570	5652	5690	1547
25°	5029	5049	5099	5178	5212	2311
35°	4166	4159	4185	4205	4200	2589
45°	2754	2742	2671	2589	2556	2084
55°	830	862	918	954	972	809
65°	130	130	131	141	136	157
75°	38	34	34	27	24	31
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



TEST NUMBER: P247220

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBS0H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5791.8	5791.8	5791.8	5791.8	5791.8
2.5°	5796.3	5785.2	5783.0	5789.6	5785.2
5°	5755.2	5759.7	5771.9	5787.4	5784.1
7.5°	5702.1	5709.8	5743.1	5783.0	5792.9
10°	5635.6	5652.2	5692.1	5737.5	5758.6
12.5°	5558.0	5580.1	5637.8	5703.2	5741.9
15°	5483.7	5508.1	5570.2	5652.2	5689.9
17.5°	5390.6	5422.8	5483.7	5572.4	5611.2
20°	5297.5	5326.3	5385.1	5471.5	5514.8
22.5°	5182.3	5203.3	5258.7	5331.9	5376.2
25°	5029.3	5049.3	5099.2	5177.8	5212.2
27.5°	4858.7	4881.9	4927.4	4981.7	5012.7
30°	4657.0	4675.8	4707.9	4756.7	4780.0
32.5°	4429.8	4430.9	4463.0	4499.6	4520.6
35°	4166.0	4159.3	4184.8	4204.8	4200.3
37.5°	3874.5	3875.6	3873.4	3875.6	3880.1
40°	3548.7	3533.2	3545.4	3517.7	3497.7
42.5°	3202.9	3187.4	3139.7	3078.8	3045.5
45°	2754.1	2741.9	2670.9	2588.9	2555.7
47.5°	2260.9	2223.2	2165.6	2095.7	2063.6
50°	1738.9	1734.4	1700.1	1683.5	1654.6
52.5°	1243.5	1243.5	1285.6	1278.9	1277.8
55°	830.1	862.2	917.6	954.2	972.0
57.5°	540.8	570.8	617.3	656.1	673.8
60°	350.2	364.6	397.9	427.8	448.8
62.5°	217.2	229.4	247.1	266.0	273.7
65°	129.7	129.7	130.8	140.8	136.3
67.5°	87.6	90.9	86.4	86.4	97.5
70°	56.5	53.2	52.1	51.0	51.0
72.5°	36.6	31.0	33.2	35.5	31.0
75°	37.7	34.4	34.4	26.6	24.4
77.5°	13.3	14.4	10.0	7.8	6.6
80°	1.1	4.4	4.4	1.1	0.0
82.5°	13.3	12.2	10.0	15.5	10.0
85°	1.1	2.2	1.1	0.0	5.5
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)