

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: P247236

Luminaire Tested: **LD8B100D010 ER8B100930 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247236  
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 ER8B100930 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9827.8 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

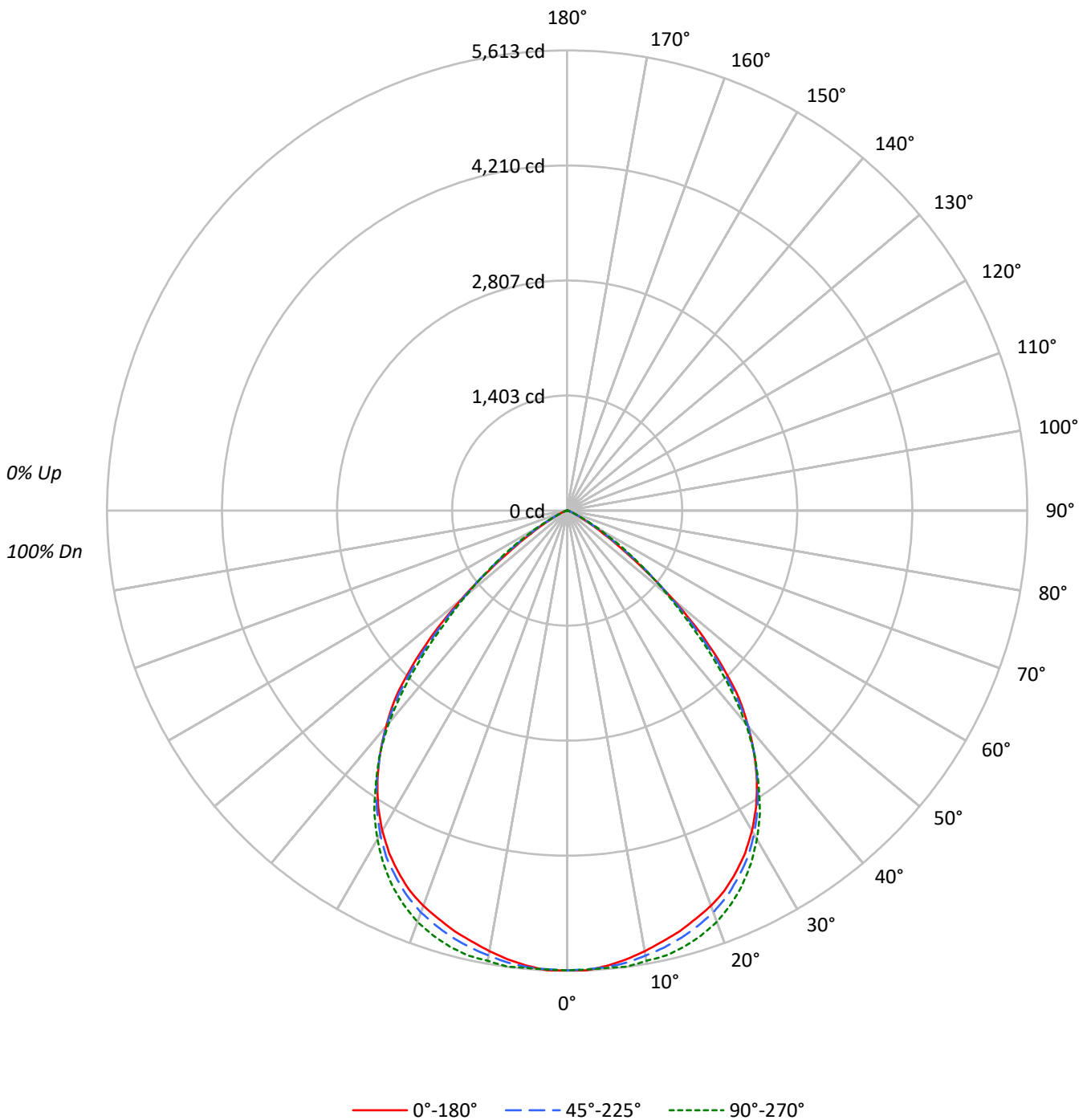
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.3	5.4
10°-20°	1523.6	15.5
20°-30°	2273.4	23.1
30°-40°	2517.8	25.6
40°-50°	1963.5	20.0
50°-60°	823.0	8.4
60°-70°	164.9	1.7
70°-80°	26.2	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°	4328.3	44.0
0°-40°	6846.1	69.7
0°-60°	9632.7	98.0
0°-90°	9827.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9827.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5608	5608	5608	5608	5608	
5°	5573	5577	5589	5604	5601	528
15°	5310	5334	5394	5473	5510	1498
25°	4870	4890	4938	5014	5047	2238
35°	4034	4028	4052	4072	4067	2507
45°	2667	2655	2586	2507	2475	2018
55°	804	835	889	924	941	783
65°	126	126	127	136	132	152
75°	36	33	33	26	24	30
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5608.5	5608.5	5608.5	5608.5	5608.5
2.5°	5612.8	5602.1	5600.0	5606.3	5602.1
5°	5573.2	5577.4	5589.2	5604.2	5601.0
7.5°	5521.6	5529.1	5561.3	5600.0	5609.6
10°	5457.3	5473.3	5512.0	5555.9	5576.3
12.5°	5382.0	5403.6	5459.4	5522.7	5560.3
15°	5310.2	5333.8	5393.9	5473.3	5509.8
17.5°	5220.0	5251.1	5310.2	5396.0	5433.6
20°	5129.9	5157.8	5214.7	5298.4	5340.2
22.5°	5018.3	5038.7	5092.4	5163.1	5206.0
25°	4870.2	4889.5	4937.8	5014.0	5047.2
27.5°	4704.8	4727.5	4771.4	4824.0	4854.0
30°	4509.6	4527.8	4558.9	4606.2	4628.7
32.5°	4289.6	4290.6	4321.8	4357.2	4377.6
35°	4034.1	4027.8	4052.4	4071.7	4067.4
37.5°	3751.9	3753.0	3750.9	3753.0	3757.3
40°	3436.4	3421.4	3433.2	3406.3	3387.0
42.5°	3101.6	3086.6	3040.4	2981.3	2949.1
45°	2666.9	2655.1	2586.4	2507.0	2474.8
47.5°	2189.3	2152.9	2097.1	2029.5	1998.3
50°	1683.9	1679.6	1646.3	1630.2	1602.2
52.5°	1204.2	1204.2	1244.9	1238.5	1237.4
55°	803.9	834.9	888.6	924.0	941.2
57.5°	523.7	552.7	597.7	635.4	652.5
60°	339.1	353.1	385.3	414.2	434.6
62.5°	210.3	222.2	239.3	257.6	265.1
65°	125.6	125.6	126.7	136.3	132.1
67.5°	84.7	88.0	83.7	83.7	94.4
70°	54.7	51.6	50.4	49.3	49.3
72.5°	35.4	30.0	32.2	34.3	30.0
75°	36.5	33.3	33.3	25.8	23.7
77.5°	12.9	13.9	9.6	7.5	6.4
80°	1.1	4.3	4.3	1.1	0.0
82.5°	12.9	11.8	9.6	15.0	9.6
85°	1.1	2.1	1.1	0.0	5.4
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)