

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: P247640

Luminaire Tested: **LD8B100D010 ER8B100850 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247640
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: LD8B100D010 ER8B100850 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10235.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

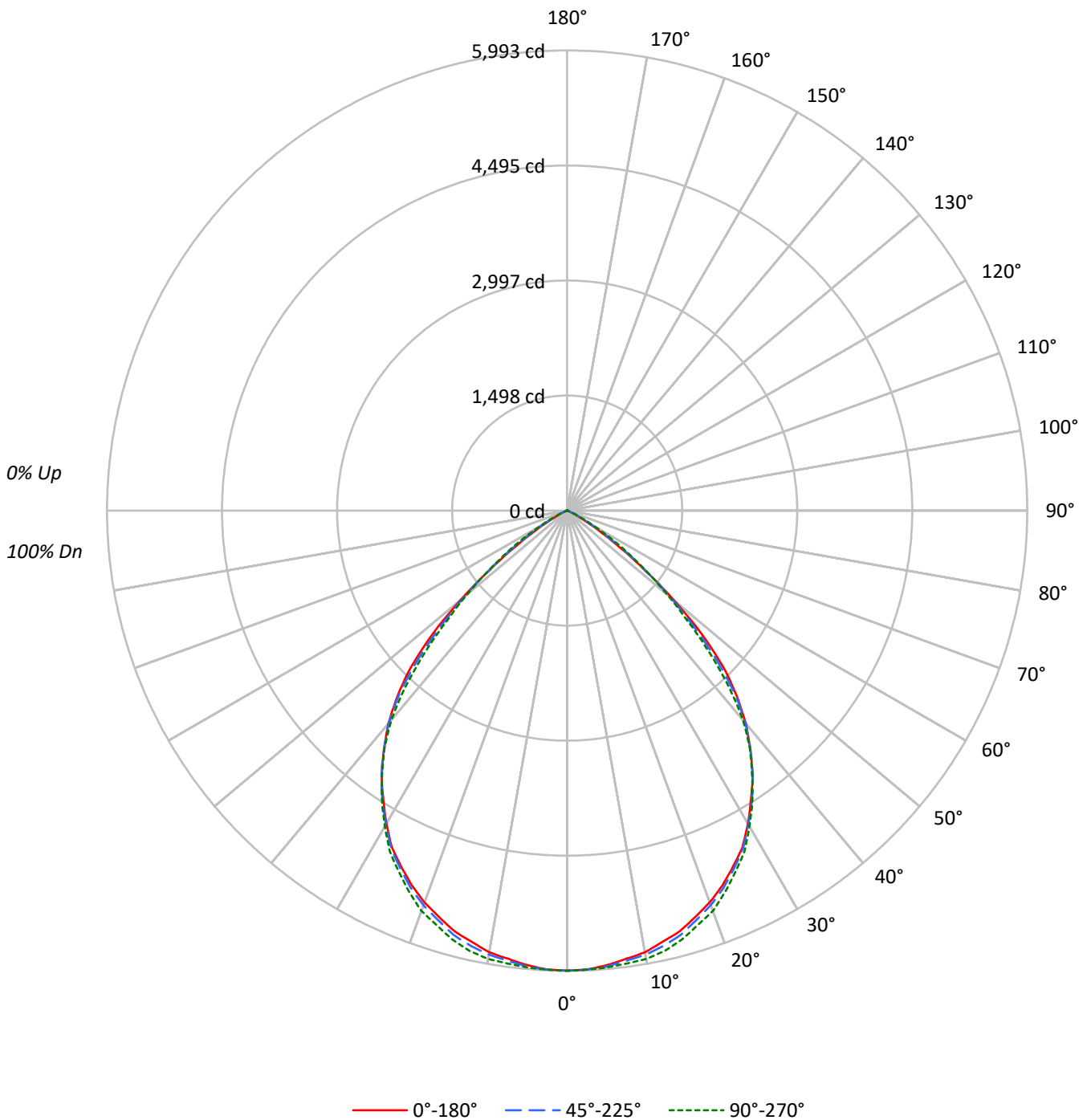
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	184796	184796	184796
5°	183954	184443	184889
10°	182906	183895	185627
15°	181061	182615	184592
20°	178168	179464	182099
25°	174030	174969	176537
30°	167594	168017	169093
35°	158505	158753	158109
40°	145651	145494	143477
45°	125245	120139	114627
50°	87075	83981	81645
55°	45428	49391	52294
60°	18428	21752	25243
65°	5859	7202	7683
70°	829	478	234
75°	0	0	0
80°	2095	462	693
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.9	5.5
10°-20°	1610.5	15.7
20°-30°	2365.9	23.1
30°-40°	2619.4	25.6
40°-50°	2087.5	20.4
50°-60°	855.4	8.4
60°-70°	125.9	1.2
70°-80°	1.8	0.0
80°-90°	2.5	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°	4542.4	44.4
0°-40°	7161.8	70.0
0°-60°	10104.7	98.7
0°-90°	10235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5993	5993	5993	5993	5993	
5°	5943	5953	5959	5968	5973	564
15°	5672	5676	5720	5774	5782	1596
25°	5115	5110	5142	5173	5189	2352
35°	4211	4205	4217	4212	4200	2617
45°	2872	2846	2755	2652	2628	2155
55°	845	874	919	971	973	813
65°	80	84	99	108	105	106
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5992.8	5992.8	5992.8	5992.8	5992.8
2.5°	5982.2	5983.6	5983.6	5977.0	5984.9
5°	5942.8	5953.3	5958.6	5967.8	5973.0
7.5°	5887.5	5884.8	5912.5	5945.4	5949.3
10°	5841.4	5836.1	5873.0	5916.4	5928.3
12.5°	5750.6	5757.2	5804.6	5849.3	5873.0
15°	5671.6	5675.6	5720.3	5774.3	5782.2
17.5°	5549.2	5561.1	5591.3	5647.9	5658.5
20°	5429.4	5434.7	5468.9	5515.0	5549.2
22.5°	5283.3	5292.5	5318.9	5359.7	5376.8
25°	5114.9	5109.6	5142.5	5172.8	5188.6
27.5°	4943.7	4934.5	4959.5	4988.5	5003.0
30°	4706.8	4704.2	4718.7	4737.1	4748.9
32.5°	4458.1	4464.6	4479.1	4484.4	4488.3
35°	4210.6	4205.3	4217.2	4211.9	4200.1
37.5°	3917.1	3921.0	3921.0	3915.8	3910.5
40°	3618.3	3622.3	3614.4	3585.4	3564.3
42.5°	3268.2	3270.8	3230.0	3165.5	3122.1
45°	2872.0	2845.7	2754.9	2652.2	2628.5
47.5°	2373.2	2328.4	2233.6	2156.0	2128.3
50°	1815.1	1782.2	1750.6	1709.8	1701.9
52.5°	1272.8	1289.9	1301.7	1314.9	1311.0
55°	845.0	874.0	918.7	971.4	972.7
57.5°	508.1	541.0	597.6	655.5	683.1
60°	298.8	311.9	352.7	396.2	409.3
62.5°	161.9	165.8	184.3	227.7	221.1
65°	80.3	84.2	98.7	107.9	105.3
67.5°	39.5	43.4	46.1	59.2	48.7
70°	9.2	2.6	5.3	6.6	2.6
72.5°	0.0	0.0	2.6	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	0.0	0.0	0.0	5.3
80°	11.8	7.9	2.6	2.6	3.9
82.5°	3.9	1.3	3.9	1.3	0.0
85°	0.0	0.0	0.0	5.3	0.0
87.5°	6.6	1.3	1.3	3.9	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)