

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: P247981

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009730 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: 17282.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

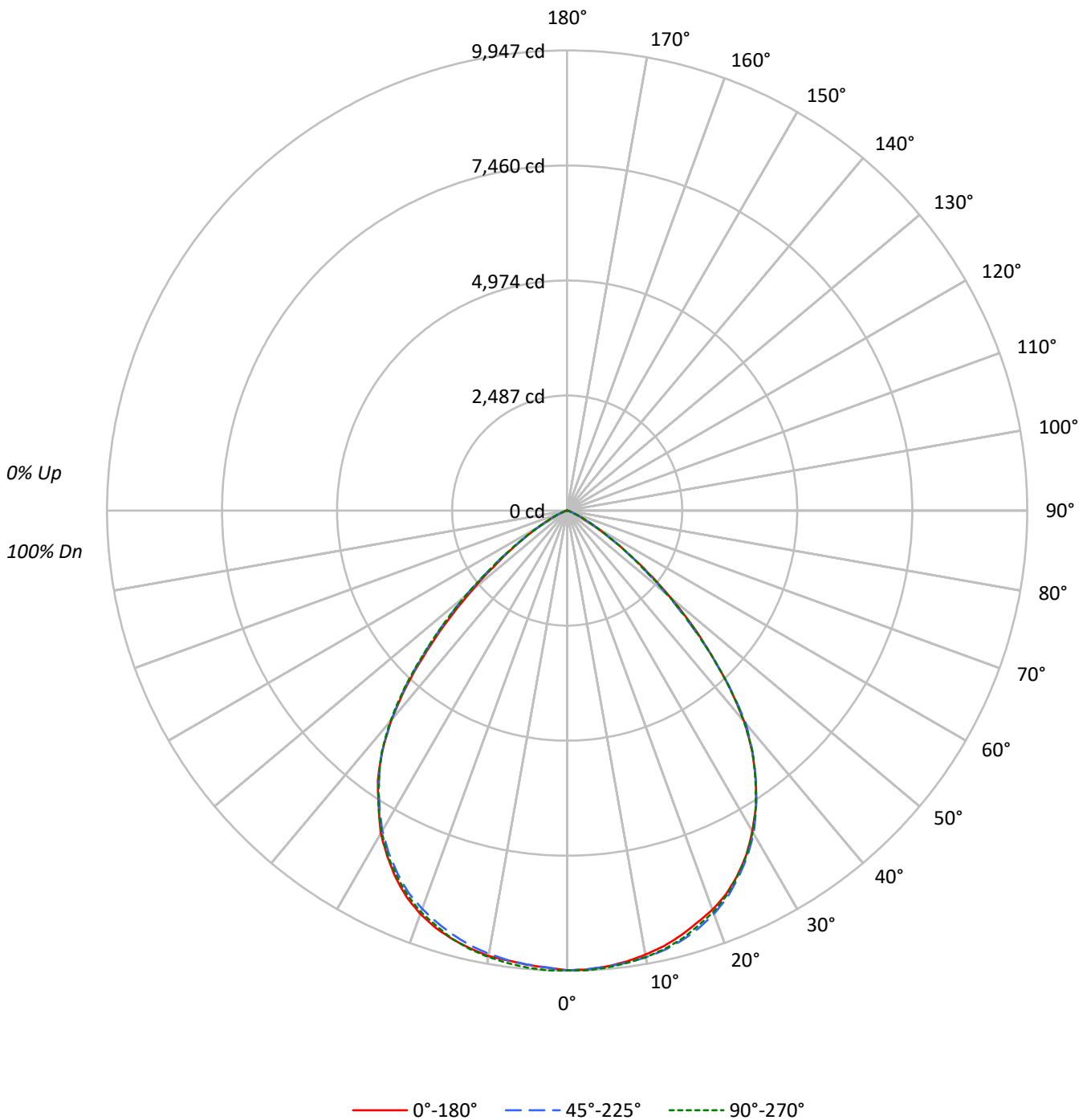
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	101	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	58	51	46	56	50	46	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°	90°	180°
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°	940.8	5.4
10°-20°	2698.7	15.6
20°-30°	4009.2	23.2
30°-40°	4418.3	25.6
40°-50°	3365.2	19.5
50°-60°	1450.7	8.4
60°-70°	333.3	1.9
70°-80°	55.4	0.3
80°-90°	10.4	0.1
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°	7648.7	44.3
0°-40°	12067.0	69.8
0°-60°	16883.0	97.7
0°-90°	17282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17282.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9937	9937	9937	9937	9937	
5°	9892	9891	9916	9849	9856	940
15°	9507	9613	9583	9498	9590	2682
25°	8705	8754	8715	8664	8764	3995
35°	7107	7111	7094	7088	7135	4412
45°	4393	4384	4392	4369	4281	3389
55°	1578	1577	1567	1576	1495	1472
65°	291	320	303	301	308	325
75°	60	60	60	61	52	55
85°	9	6	6	18	13	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9937.2	9937.2	9937.2	9937.2	9937.2	9937.2	9937.2	9937.2	9937.2
2.5°	9926.4	9927.4	9920.5	9935.2	9947.0	9908.8	9886.2	9937.2	9888.2
5°	9892.1	9899.0	9891.1	9909.8	9915.6	9884.3	9849.0	9903.9	9855.8
7.5°	9833.3	9847.0	9858.8	9880.3	9864.7	9825.4	9801.9	9866.6	9807.8
10°	9745.0	9779.4	9804.9	9837.2	9799.0	9756.8	9728.4	9816.6	9777.4
12.5°	9646.0	9685.2	9728.4	9767.6	9709.8	9648.0	9633.3	9727.4	9692.1
15°	9506.8	9543.1	9612.7	9650.0	9583.3	9512.7	9498.0	9617.6	9590.1
17.5°	9343.1	9406.8	9465.6	9495.1	9410.7	9350.0	9342.1	9465.6	9454.9
20°	9181.3	9215.6	9276.4	9315.6	9235.2	9162.7	9159.8	9287.2	9276.4
22.5°	8976.4	9006.8	9047.0	9083.3	9007.8	8947.0	8950.9	9055.8	9053.9
25°	8704.9	8725.4	8753.9	8794.1	8714.7	8671.5	8663.7	8775.4	8763.7
27.5°	8388.2	8401.9	8434.3	8468.6	8400.0	8361.7	8348.0	8459.8	8420.5
30°	8002.9	8034.3	8056.8	8071.5	8020.5	7997.0	7987.2	8075.4	8056.8
32.5°	7594.1	7604.9	7605.8	7642.1	7588.2	7554.9	7554.9	7625.5	7583.3
35°	7106.8	7104.9	7110.7	7150.0	7094.1	7105.8	7088.2	7144.1	7135.3
37.5°	6572.5	6581.3	6583.3	6614.7	6583.3	6591.1	6584.3	6593.1	6564.7
40°	5958.8	5997.0	6009.8	6003.9	5943.1	5922.5	5904.9	5937.2	5901.0
42.5°	5197.0	5214.7	5216.6	5220.6	5203.9	5201.0	5179.4	5193.1	5136.2
45°	4393.1	4401.0	4384.3	4381.4	4392.1	4408.8	4368.6	4337.2	4281.4
47.5°	3658.8	3631.4	3555.9	3583.3	3595.1	3637.2	3594.1	3509.8	3463.7
50°	2886.3	2857.8	2800.0	2812.7	2858.8	2922.5	2872.5	2755.9	2694.1
52.5°	2204.9	2172.5	2107.8	2119.6	2133.3	2181.4	2154.9	2075.5	2015.7
55°	1578.4	1555.9	1577.4	1559.8	1566.7	1612.7	1576.5	1510.8	1495.1
57.5°	1066.7	1079.4	1097.1	1100.0	1086.3	1072.5	1067.6	1042.2	1055.9
60°	706.9	716.7	746.1	754.9	734.3	704.9	710.8	710.8	723.5
62.5°	456.9	465.7	500.0	505.9	476.5	468.6	468.6	465.7	489.2
65°	291.2	308.8	319.6	303.9	302.9	292.2	301.0	301.0	307.8
67.5°	174.5	158.8	169.6	176.5	169.6	160.8	158.8	159.8	169.6
70°	101.0	97.1	103.9	100.0	103.9	90.2	101.0	96.1	99.0
72.5°	64.7	63.7	63.7	67.6	63.7	61.8	65.7	56.9	62.7
75°	59.8	59.8	59.8	52.0	59.8	57.8	60.8	46.1	52.0
77.5°	23.5	27.5	33.3	32.4	32.4	30.4	27.5	23.5	36.3
80°	21.6	19.6	26.5	31.4	19.6	23.5	26.5	16.7	17.6
82.5°	10.8	9.8	12.7	12.7	12.7	6.9	17.6	10.8	8.8
85°	8.8	3.9	5.9	5.9	5.9	7.8	17.6	4.9	12.7
87.5°	2.0	2.9	4.9	4.9	5.9	9.8	17.6	3.9	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)