

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: P248161

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009730 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17715.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

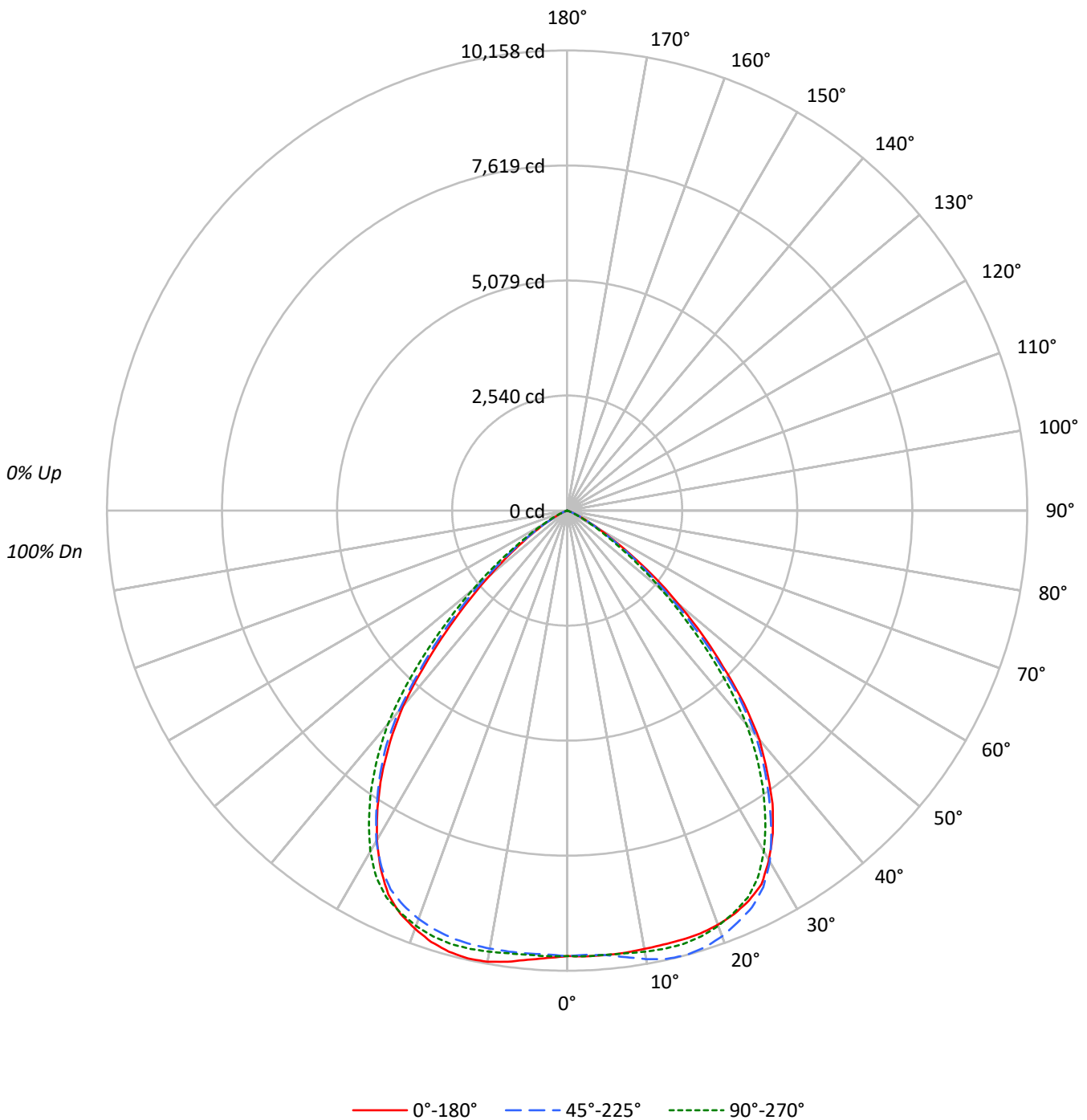
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248161

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBS0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P248161

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBS0WH

**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	96	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

**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°			



TEST NUMBER: P248161

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBS0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	943.0	5.3
10°-20°	2806.6	15.8
20°-30°	4314.1	24.4
30°-40°	4663.4	26.3
40°-50°	3355.8	18.9
50°-60°	1354.1	7.6
60°-70°	260.4	1.5
70°-80°	15.5	0.1
80°-90°	2.2	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°	8063.7	45.5
0°-40°	12727.1	71.8
0°-60°	17437.0	98.4
0°-90°	17715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9835	9835	9835	9835	9835	
5°	9849	9852	9842	9814	9951	939
15°	9807	10158	9905	9775	10080	2776
25°	9499	9662	9428	9225	9346	4358
35°	7903	7778	7552	7225	7139	4894
45°	4860	4716	4375	4016	3792	3754
55°	1772	1638	1441	1245	1139	1651
65°	286	292	215	168	165	335
75°	15	12	9	9	9	25
85°	3	2	1	1	1	3
90°	0	0	0	0	0	



TEST NUMBER: P248161

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBS0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9834.7	9834.7	9834.7	9834.7	9834.7	9834.7	9834.7	9834.7	9834.7
2.5°	9849.4	9835.7	9816.1	9815.1	9846.5	9828.8	9807.2	9829.8	9885.7
5°	9849.4	9851.4	9852.3	9843.5	9842.5	9813.1	9814.1	9874.9	9951.4
7.5°	9842.5	9880.8	9940.6	9926.8	9858.2	9793.5	9820.0	9942.5	10044.5
10°	9826.9	9916.1	10053.3	10032.7	9885.7	9775.9	9818.0	9988.6	10112.1
12.5°	9813.1	9935.7	10138.6	10114.1	9908.2	9764.1	9806.3	9994.5	10127.8
15°	9807.2	9939.6	10158.2	10127.8	9905.3	9740.6	9774.9	9951.4	10079.8
17.5°	9785.7	9909.2	10109.2	10071.9	9854.3	9685.7	9700.4	9861.2	9982.7
20°	9730.8	9836.7	10000.4	9949.4	9756.3	9586.7	9591.6	9713.1	9822.9
22.5°	9637.7	9721.0	9839.6	9790.6	9610.2	9456.3	9435.7	9537.7	9629.8
25°	9499.4	9567.1	9662.2	9609.2	9427.9	9271.0	9224.9	9289.6	9345.5
27.5°	9296.5	9320.0	9373.9	9292.6	9124.9	8971.0	8875.0	8884.8	8914.2
30°	8906.3	8944.6	8949.5	8856.3	8688.7	8510.3	8422.0	8373.0	8396.5
32.5°	8447.5	8436.7	8387.7	8275.0	8143.6	8001.5	7834.8	7778.9	7791.7
35°	7903.4	7878.0	7778.0	7670.1	7551.5	7377.0	7225.1	7142.7	7138.8
37.5°	7240.7	7206.4	7140.7	6991.7	6882.9	6735.9	6570.2	6479.0	6410.4
40°	6602.5	6548.6	6471.2	6292.8	6155.5	5950.6	5781.0	5654.6	5635.9
42.5°	5779.1	5752.6	5641.8	5462.4	5290.9	5048.7	4851.7	4745.8	4690.9
45°	4860.5	4860.5	4716.4	4558.5	4375.2	4194.8	4016.4	3858.6	3791.9
47.5°	4038.0	3936.0	3799.8	3631.2	3496.8	3369.4	3180.2	2986.1	2941.0
50°	3200.8	3136.1	2975.3	2814.5	2732.2	2610.6	2461.6	2273.4	2225.4
52.5°	2473.4	2371.4	2232.2	2112.6	2035.2	1940.1	1778.3	1649.9	1625.4
55°	1771.5	1719.5	1638.1	1540.1	1441.1	1341.1	1245.0	1171.5	1139.1
57.5°	1213.7	1196.0	1128.4	1070.5	974.5	886.2	798.0	774.5	776.4
60°	794.1	793.1	759.8	707.8	624.5	544.1	502.9	491.1	499.0
62.5°	480.4	489.2	480.4	450.0	386.3	324.5	295.1	301.0	296.1
65°	286.3	295.1	292.1	252.9	214.7	188.2	167.6	159.8	164.7
67.5°	166.7	161.8	149.0	130.4	106.9	88.2	74.5	67.6	68.6
70°	73.5	69.6	62.7	48.0	36.3	29.4	24.5	22.5	23.5
72.5°	27.4	26.5	22.5	18.6	15.7	12.7	11.8	11.8	11.8
75°	14.7	13.7	11.8	9.8	8.8	8.8	8.8	8.8	8.8
77.5°	10.8	9.8	8.8	7.8	6.9	5.9	5.9	5.9	5.9
80°	7.8	6.9	5.9	4.9	4.9	3.9	3.9	3.9	3.9
82.5°	4.9	4.9	3.9	2.9	2.9	2.0	2.0	2.0	2.0
85°	2.9	2.9	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)