

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: P248157

Luminaire Tested: **LD8B175D010 ER8B175927 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248157  
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: LD8B175D010 ER8B175927 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15980.7 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

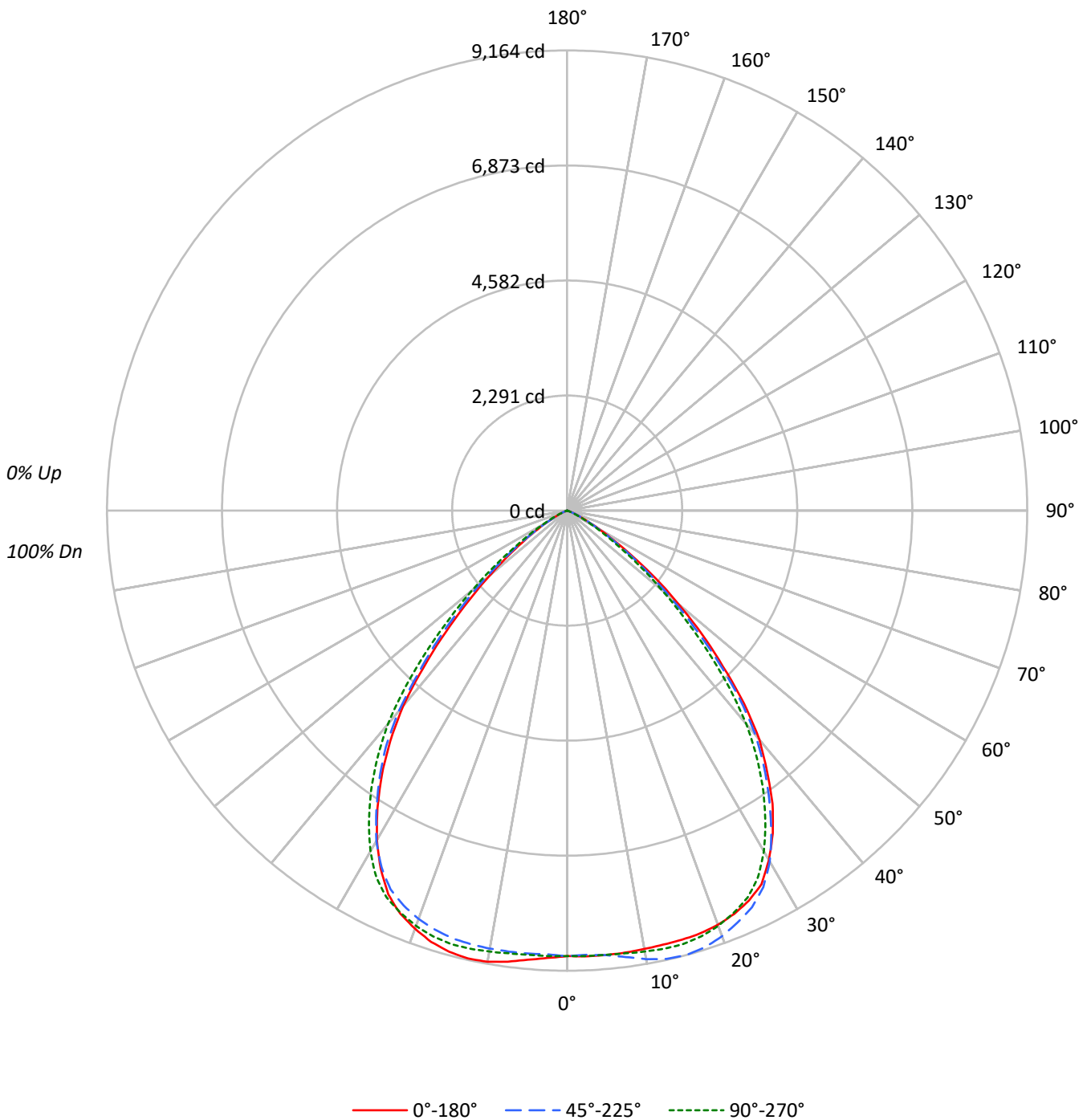
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	850.7	5.3
10°-20°	2531.8	15.8
20°-30°	3891.7	24.4
30°-40°	4206.9	26.3
40°-50°	3027.2	18.9
50°-60°	1221.5	7.6
60°-70°	234.9	1.5
70°-80°	14.0	0.1
80°-90°	2.0	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°	7274.2	45.5
0°-40°	11481.1	71.8
0°-60°	15729.8	98.4
0°-90°	15980.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15980.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8872	8872	8872	8872	8872	
5°	8885	8888	8879	8853	8977	847
15°	8847	9164	8936	8818	9093	2504
25°	8569	8716	8505	8322	8430	3931
35°	7130	7016	6812	6518	6440	4415
45°	4385	4255	3947	3623	3421	3387
55°	1598	1478	1300	1123	1028	1490
65°	258	264	194	151	149	302
75°	13	11	8	8	8	22
85°	3	2	1	1	1	3
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°	8871.9	8871.9	8871.9	8871.9	8871.9	8871.9	8871.9	8871.9	8871.9
2.5°	8885.1	8872.8	8855.0	8854.2	8882.4	8866.6	8847.1	8867.4	8917.9
5°	8885.1	8886.8	8887.7	8879.8	8878.9	8852.4	8853.3	8908.1	8977.1
7.5°	8878.9	8913.4	8967.4	8955.0	8893.0	8834.7	8858.6	8969.1	9061.1
10°	8864.8	8945.2	9069.1	9050.5	8917.9	8818.8	8856.8	9010.7	9122.1
12.5°	8852.4	8962.9	9146.0	9123.9	8938.1	8808.2	8846.2	9016.0	9136.2
15°	8847.1	8966.5	9163.7	9136.2	8935.5	8786.9	8817.9	8977.1	9092.9
17.5°	8827.6	8939.0	9119.5	9085.8	8889.5	8737.4	8750.7	8895.7	9005.4
20°	8778.2	8873.7	9021.3	8975.4	8801.1	8648.1	8652.5	8762.2	8861.2
22.5°	8694.1	8769.3	8876.2	8832.0	8669.4	8530.4	8511.9	8603.9	8687.0
25°	8569.4	8630.4	8716.2	8668.5	8504.9	8363.4	8321.7	8380.1	8430.5
27.5°	8386.3	8407.6	8456.2	8382.8	8231.5	8092.7	8006.1	8015.0	8041.4
30°	8034.3	8068.8	8073.2	7989.3	7838.0	7677.1	7597.5	7553.2	7574.5
32.5°	7620.5	7610.7	7566.5	7464.8	7346.4	7218.1	7067.8	7017.3	7028.9
35°	7129.7	7106.6	7016.5	6919.2	6812.2	6654.7	6517.7	6443.4	6439.8
37.5°	6531.9	6500.9	6441.6	6307.2	6209.1	6076.3	5927.0	5844.7	5782.8
40°	5956.1	5907.5	5837.6	5676.6	5552.9	5368.0	5215.0	5101.0	5084.1
42.5°	5213.2	5189.4	5089.5	4927.6	4772.8	4554.4	4376.7	4281.2	4231.7
45°	4384.6	4384.6	4254.6	4112.2	3946.8	3784.2	3623.2	3480.9	3420.7
47.5°	3642.6	3550.7	3427.8	3275.7	3154.5	3039.5	2868.9	2693.7	2653.1
50°	2887.4	2829.0	2684.0	2539.0	2464.6	2355.1	2220.6	2050.8	2007.4
52.5°	2231.2	2139.3	2013.6	1905.8	1835.9	1750.2	1604.2	1488.4	1466.2
55°	1598.1	1551.1	1477.8	1389.4	1300.0	1209.8	1123.1	1056.8	1027.6
57.5°	1094.9	1078.9	1017.9	965.7	879.1	799.4	719.9	698.6	700.4
60°	716.3	715.4	685.4	638.6	563.3	490.8	453.7	443.0	450.1
62.5°	433.4	441.3	433.4	405.9	348.4	292.7	266.2	271.5	267.1
65°	258.2	266.2	263.6	228.2	193.7	169.8	151.2	144.1	148.6
67.5°	150.3	145.9	134.4	117.7	96.4	79.5	67.2	61.0	61.9
70°	66.4	62.8	56.6	43.3	32.7	26.6	22.2	20.4	21.3
72.5°	24.8	23.8	20.4	16.8	14.2	11.5	10.6	10.6	10.6
75°	13.3	12.4	10.6	8.9	8.0	8.0	8.0	8.0	8.0
77.5°	9.7	8.9	8.0	7.1	6.2	5.3	5.3	5.3	5.3
80°	7.1	6.2	5.3	4.4	4.4	3.5	3.5	3.5	3.5
82.5°	4.4	4.4	3.5	2.7	2.7	1.8	1.8	1.8	1.8
85°	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)