

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: P248160

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248160  
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 ER8B1759730 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: 15029.0 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

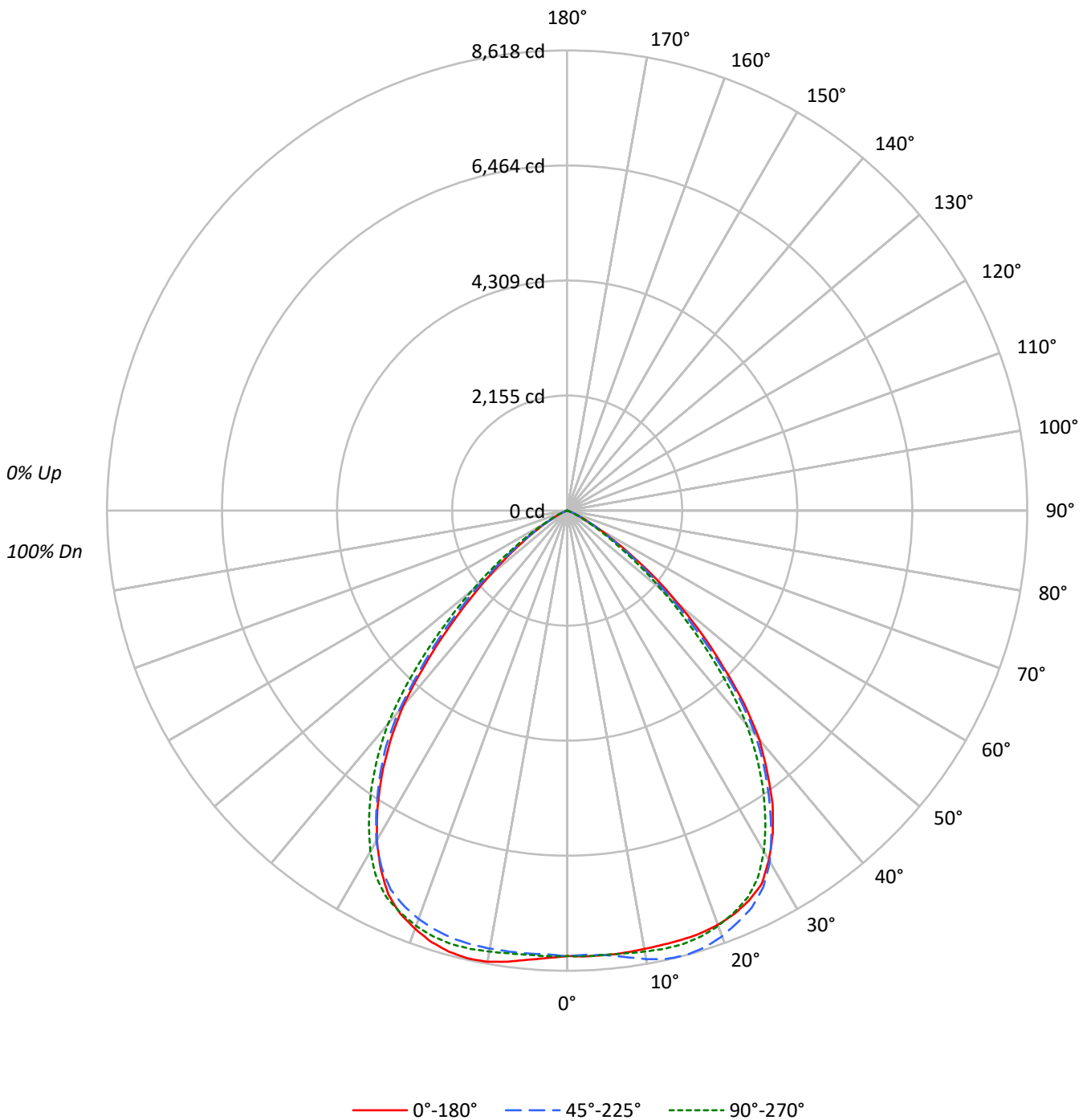
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	800.0	5.3
10°-20°	2381.1	15.8
20°-30°	3659.9	24.4
30°-40°	3956.4	26.3
40°-50°	2846.9	18.9
50°-60°	1148.8	7.6
60°-70°	220.9	1.5
70°-80°	13.1	0.1
80°-90°	1.8	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°	6841.0	45.5
0°-40°	10797.4	71.8
0°-60°	14793.1	98.4
0°-90°	15029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8344	8344	8344	8344	8344	
5°	8356	8358	8350	8326	8442	797
15°	8320	8618	8403	8293	8552	2355
25°	8059	8197	7998	7826	7928	3697
35°	6705	6599	6406	6130	6056	4152
45°	4124	4001	3712	3407	3217	3185
55°	1503	1390	1223	1056	966	1401
65°	243	248	182	142	140	284
75°	12	10	8	8	8	21
85°	2	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°	8343.5	8343.5	8343.5	8343.5	8343.5	8343.5	8343.5	8343.5	8343.5
2.5°	8356.0	8344.4	8327.7	8326.9	8353.5	8338.5	8320.2	8339.4	8386.8
5°	8356.0	8357.7	8358.5	8351.0	8350.2	8325.2	8326.1	8377.6	8442.5
7.5°	8350.2	8382.6	8433.4	8421.7	8363.5	8308.6	8331.1	8435.0	8521.5
10°	8336.9	8412.6	8529.0	8511.5	8386.8	8293.6	8329.4	8474.1	8578.9
12.5°	8325.2	8429.2	8601.4	8580.6	8405.9	8283.7	8319.4	8479.1	8592.2
15°	8320.2	8432.5	8618.0	8592.2	8403.4	8263.7	8292.8	8442.5	8551.5
17.5°	8301.9	8406.7	8576.4	8544.8	8360.2	8217.1	8229.6	8366.0	8469.1
20°	8255.4	8345.2	8484.1	8440.8	8277.0	8133.1	8137.3	8240.4	8333.6
22.5°	8176.4	8247.1	8347.7	8306.1	8153.1	8022.5	8005.0	8091.5	8169.7
25°	8059.1	8116.5	8197.2	8152.2	7998.4	7865.3	7826.2	7881.1	7928.5
27.5°	7886.9	7906.9	7952.6	7883.6	7741.4	7610.8	7529.3	7537.6	7562.6
30°	7555.9	7588.4	7592.5	7513.5	7371.3	7219.9	7145.1	7103.5	7123.4
32.5°	7166.7	7157.5	7116.0	7020.3	6908.9	6788.3	6646.9	6599.5	6610.3
35°	6705.1	6683.5	6598.6	6507.2	6406.5	6258.5	6129.6	6059.7	6056.4
37.5°	6142.9	6113.8	6058.0	5931.6	5839.3	5714.6	5574.0	5496.7	5438.4
40°	5601.4	5555.7	5490.0	5338.6	5222.2	5048.4	4904.5	4797.2	4781.4
42.5°	4902.8	4880.4	4786.4	4634.2	4488.6	4283.2	4116.0	4026.2	3979.6
45°	4123.5	4123.5	4001.3	3867.4	3711.8	3558.8	3407.4	3273.5	3217.0
47.5°	3425.7	3339.2	3223.6	3080.6	2966.6	2858.5	2698.0	2533.3	2495.1
50°	2715.5	2660.6	2524.2	2387.8	2317.9	2214.8	2088.4	1928.7	1887.9
52.5°	2098.4	2011.9	1893.8	1792.3	1726.6	1645.9	1508.7	1399.7	1378.9
55°	1502.9	1458.8	1389.8	1306.6	1222.6	1137.8	1056.2	993.9	966.4
57.5°	1029.6	1014.7	957.3	908.2	826.7	751.8	677.0	657.0	658.7
60°	673.7	672.8	644.6	600.5	529.8	461.6	426.7	416.7	423.3
62.5°	407.5	415.0	407.5	381.7	327.7	275.3	250.3	255.3	251.2
65°	242.9	250.3	247.8	214.6	182.1	159.7	142.2	135.6	139.7
67.5°	141.4	137.2	126.4	110.6	90.7	74.9	63.2	57.4	58.2
70°	62.4	59.1	53.2	40.8	30.8	25.0	20.8	19.1	20.0
72.5°	23.3	22.5	19.1	15.8	13.3	10.8	10.0	10.0	10.0
75°	12.5	11.6	10.0	8.3	7.5	7.5	7.5	7.5	7.5
77.5°	9.1	8.3	7.5	6.7	5.8	5.0	5.0	5.0	5.0
80°	6.7	5.8	5.0	4.2	4.2	3.3	3.3	3.3	3.3
82.5°	4.2	4.2	3.3	2.5	2.5	1.7	1.7	1.7	1.7
85°	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)