

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: P248064

Luminaire Tested: **LD8B175D010 ER8B175840 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175840 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19421.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

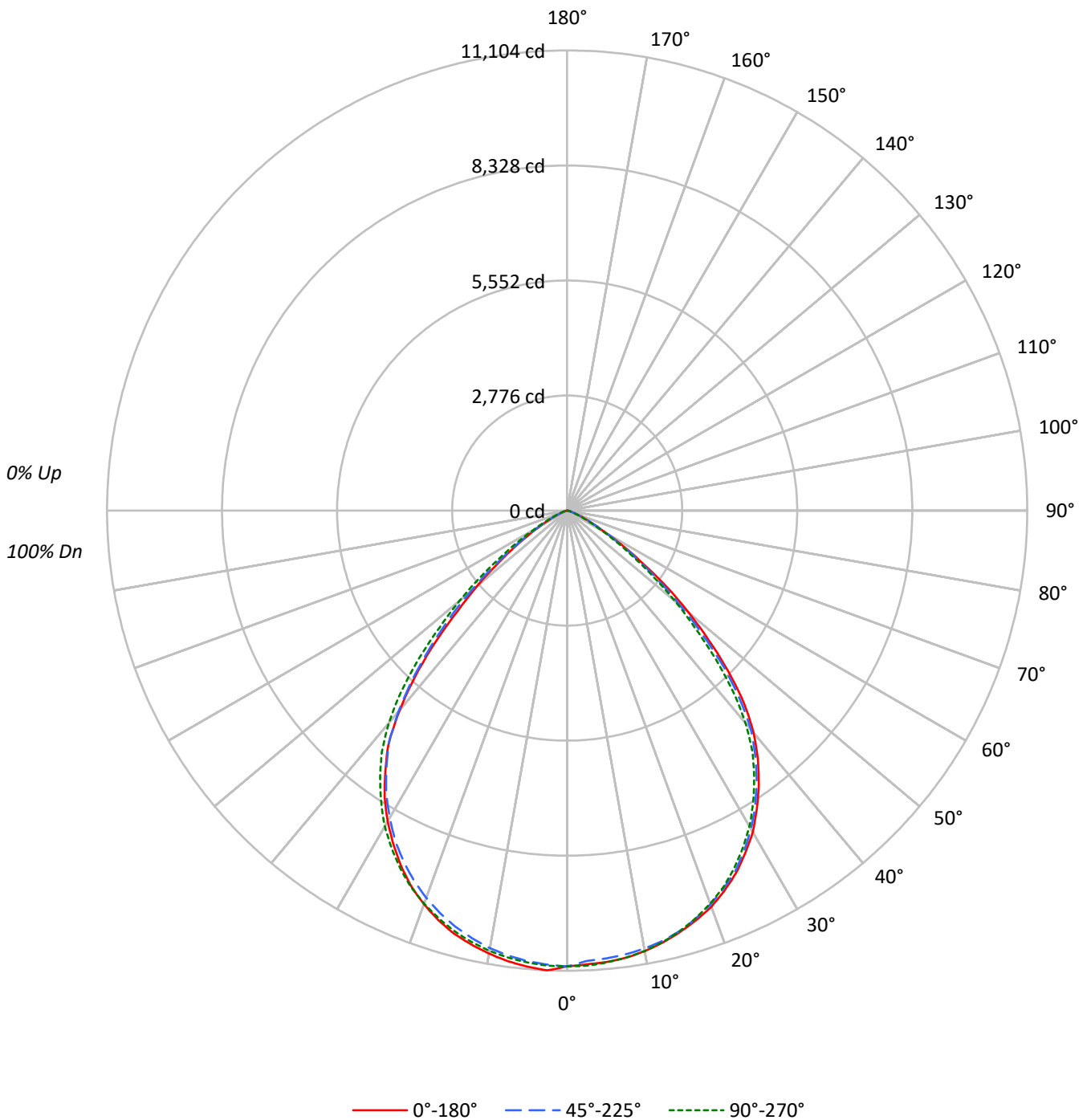
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248064

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBS0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P248064

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBS0WMH

**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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	339193	339193	339193
5°	338511	338858	341879
10°	338035	337822	339895
15°	336084	335474	337300
20°	333837	331185	331701
25°	328197	324267	322321
30°	318979	313350	308397
35°	303540	296233	288001
40°	281870	269770	253113
45°	240260	221138	196337
50°	182944	162983	135974
55°	120603	105104	84664
60°	67723	59557	46760
65°	35519	31754	22590
70°	16986	14966	9404
75°	9627	10425	6553
80°	7370	7174	3782
85°	4352	3573	1592



TEST NUMBER: P248064

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBS0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1038.8	5.3
10°-20°	2958.7	15.2
20°-30°	4371.1	22.5
30°-40°	4871.1	25.1
40°-50°	3846.8	19.8
50°-60°	1776.5	9.1
60°-70°	456.4	2.3
70°-80°	87.9	0.5
80°-90°	13.8	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°	8368.6	43.1
0°-40°	13239.7	68.2
0°-60°	18863.0	97.1
0°-90°	19421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11000	11000	11000	11000	11000	
5°	10936	10848	10947	10913	11045	###
15°	10528	10503	10508	10399	10566	2971
25°	9646	9601	9530	9340	9473	4433
35°	8063	7974	7869	7607	7651	5021
45°	5509	5349	5071	4666	4502	4205
55°	2243	2114	1955	1674	1575	2079
65°	487	494	435	333	310	534
75°	81	85	88	66	55	97
85°	12	12	10	6	4	17
90°	0	0	0	0	0	



TEST NUMBER: P248064

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBS0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10999.8	10999.8	10999.8	10999.8	10999.8	10999.8	10999.8	10999.8	10999.8
2.5°	10958.3	11009.9	10878.7	10985.2	10989.7	10914.6	10966.2	11027.9	11104.1
5°	10935.9	10988.6	10848.4	10947.1	10947.1	10865.2	10913.4	10967.3	11044.7
7.5°	10883.2	10940.4	10802.4	10894.4	10879.8	10790.1	10832.7	10885.4	10968.4
10°	10795.7	10866.3	10731.7	10819.2	10788.9	10685.8	10722.8	10777.7	10855.1
12.5°	10675.7	10759.8	10634.2	10710.4	10662.2	10544.4	10574.7	10645.4	10721.7
15°	10527.6	10614.0	10502.9	10569.1	10508.5	10377.3	10398.6	10470.4	10565.7
17.5°	10362.7	10446.9	10322.4	10394.1	10313.4	10177.7	10185.5	10268.5	10354.9
20°	10173.2	10242.7	10114.8	10183.3	10092.4	9943.2	9944.4	10018.4	10108.1
22.5°	9924.2	9997.1	9864.7	9921.9	9838.9	9679.7	9660.6	9732.4	9818.7
25°	9646.0	9722.3	9601.1	9621.3	9530.5	9365.6	9339.8	9392.5	9473.3
27.5°	9312.9	9388.0	9251.2	9277.0	9177.2	9019.0	8984.2	9012.3	9076.2
30°	8958.4	9005.6	8875.4	8896.8	8800.3	8613.0	8560.3	8598.4	8661.2
32.5°	8522.1	8555.8	8444.7	8456.0	8351.6	8190.1	8120.6	8131.8	8195.7
35°	8063.4	8081.3	7973.7	7975.9	7869.3	7705.6	7606.9	7601.3	7650.6
37.5°	7557.5	7569.9	7461.1	7455.5	7345.5	7168.3	7065.1	7047.2	7077.5
40°	7002.3	7019.2	6905.9	6870.0	6701.7	6499.8	6331.6	6300.2	6287.9
42.5°	6329.4	6283.4	6164.5	6103.9	5934.5	5675.4	5519.5	5472.4	5432.0
45°	5509.4	5472.4	5349.0	5212.2	5070.9	4875.7	4666.0	4537.0	4502.2
47.5°	4649.2	4605.4	4428.2	4308.2	4169.1	4079.4	3853.9	3655.4	3569.0
50°	3813.5	3765.3	3567.9	3479.3	3397.4	3263.9	3045.2	2866.9	2834.4
52.5°	3040.7	2967.8	2798.5	2706.5	2633.6	2485.5	2288.1	2184.9	2130.0
55°	2243.3	2232.0	2114.3	2048.1	1955.0	1837.2	1673.5	1596.1	1574.8
57.5°	1634.2	1592.7	1547.8	1491.8	1411.0	1263.0	1162.0	1103.7	1099.2
60°	1098.1	1111.5	1111.5	1049.8	965.7	869.3	788.5	757.1	758.2
62.5°	736.9	745.9	743.6	716.7	651.7	573.2	520.4	498.0	499.1
65°	486.8	484.5	493.5	474.4	435.2	380.2	333.1	320.8	309.6
67.5°	309.6	312.9	309.6	299.5	275.9	236.7	205.3	186.2	180.6
70°	188.4	183.9	185.1	182.8	166.0	146.9	124.5	108.8	104.3
72.5°	113.3	116.6	117.8	121.1	118.9	105.4	89.7	78.5	76.3
75°	80.8	81.9	85.2	88.6	87.5	78.5	66.2	58.3	55.0
77.5°	60.6	60.6	62.8	67.3	63.9	56.1	47.1	40.4	38.1
80°	41.5	42.6	43.7	43.7	40.4	35.9	28.0	23.6	21.3
82.5°	24.7	25.8	24.7	24.7	22.4	17.9	13.5	12.3	11.2
85°	12.3	12.3	12.3	12.3	10.1	7.9	5.6	4.5	4.5
87.5°	5.6	5.6	5.6	4.5	3.4	2.2	2.2	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)