

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: P247947

Luminaire Tested: **LD8B175D010 ER8B175827 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247947  
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: LD8B175D010 ER8B175827 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18671.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

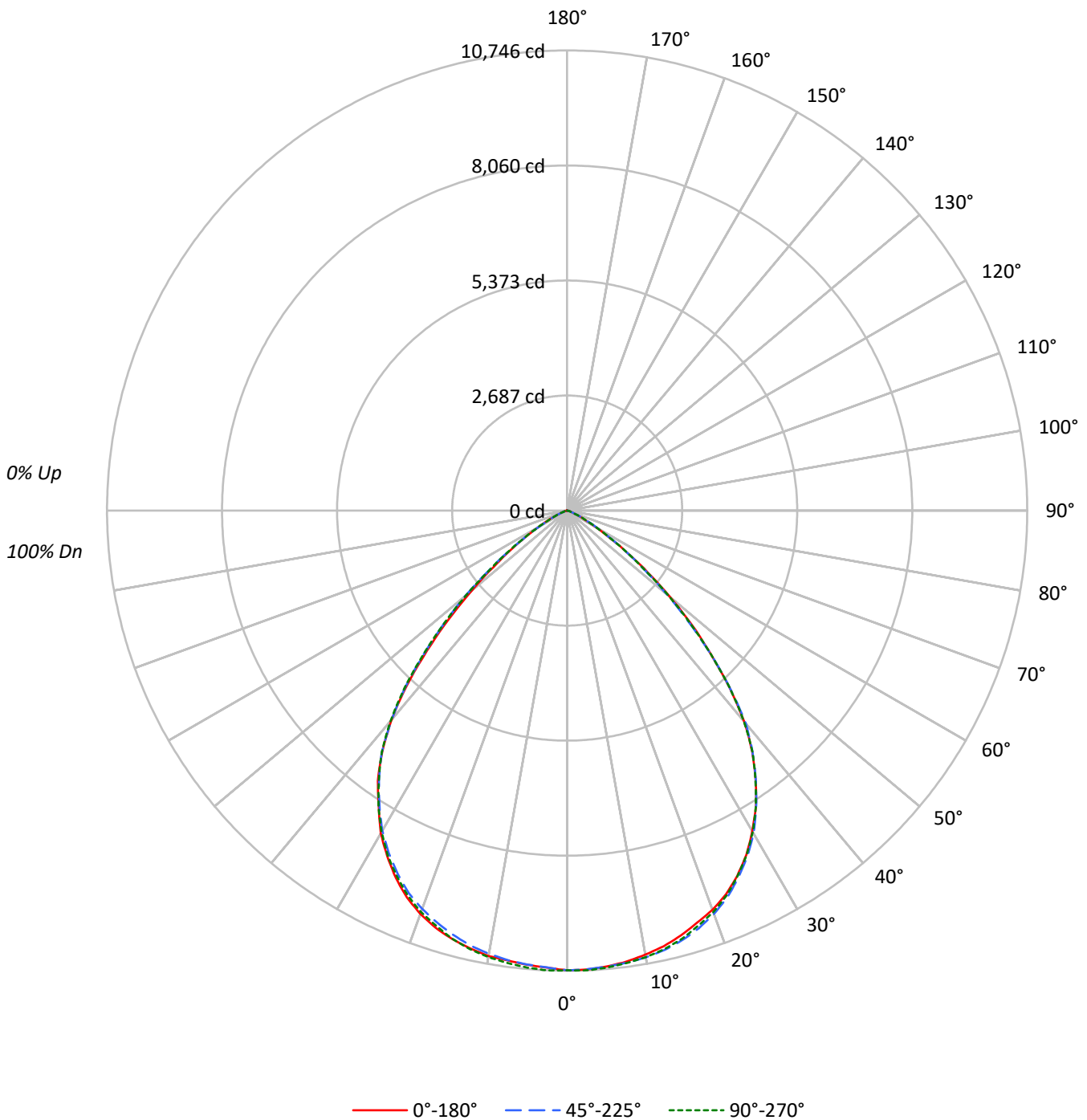
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	107	104	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	90°	180°
0°	331056	331056	331056
5°	330813	331599	329599
10°	329662	331485	330755
15°	327889	330526	330762
20°	325505	327415	328875
25°	319980	320340	322140
30°	307859	308539	309935
35°	289032	288516	290188
40°	259143	258463	256627
45°	206978	206930	201714
50°	149589	148169	139630
55°	91679	90997	86841
60°	47099	48925	48209
65°	22955	23881	24268
70°	9836	10125	9647
75°	7697	7697	6684
80°	4138	3765	3392
85°	3361	2264	4883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1016.4	5.4
10°-20°	2915.6	15.6
20°-30°	4331.4	23.2
30°-40°	4773.4	25.6
40°-50°	3635.7	19.5
50°-60°	1567.3	8.4
60°-70°	360.0	1.9
70°-80°	59.8	0.3
80°-90°	11.3	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°	8263.5	44.3
0°-40°	13036.9	69.8
0°-60°	18239.9	97.7
0°-90°	18671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18671.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10736	10736	10736	10736	10736	
5°	10687	10686	10713	10641	10648	###
15°	10271	10385	10354	10261	10361	2897
25°	9404	9457	9415	9360	9468	4316
35°	7678	7682	7664	7658	7709	4767
45°	4746	4737	4745	4720	4626	3661
55°	1705	1704	1693	1703	1615	1590
65°	315	345	327	325	333	352
75°	65	65	65	66	56	59
85°	10	6	6	19	14	10
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°	10735.9	10735.9	10735.9	10735.9	10735.9	10735.9	10735.9	10735.9	10735.9
2.5°	10724.2	10725.3	10717.9	10733.8	10746.5	10705.2	10680.8	10735.9	10682.9
5°	10687.2	10694.6	10686.1	10706.2	10712.6	10678.7	10640.6	10699.9	10648.0
7.5°	10623.6	10638.4	10651.1	10674.5	10657.5	10615.1	10589.7	10659.6	10596.1
10°	10528.3	10565.4	10592.9	10627.8	10586.5	10541.0	10510.3	10605.6	10563.2
12.5°	10421.3	10463.7	10510.3	10552.6	10490.2	10423.4	10407.5	10509.2	10471.1
15°	10270.9	10310.1	10385.3	10425.5	10353.5	10277.3	10261.4	10390.6	10360.9
17.5°	10094.0	10162.9	10226.4	10258.2	10167.1	10101.4	10093.0	10226.4	10214.8
20°	9919.3	9956.3	10022.0	10064.4	9977.5	9899.1	9896.0	10033.6	10022.0
22.5°	9697.9	9730.7	9774.1	9813.3	9731.8	9666.1	9670.3	9783.7	9781.6
25°	9404.5	9426.7	9457.4	9500.9	9415.1	9368.5	9360.0	9480.8	9468.0
27.5°	9062.4	9077.2	9112.2	9149.2	9075.1	9033.8	9018.9	9139.7	9097.3
30°	8646.1	8680.0	8704.4	8720.3	8665.2	8639.8	8629.2	8724.5	8704.4
32.5°	8204.4	8216.1	8217.1	8256.3	8198.1	8162.1	8162.1	8238.3	8192.8
35°	7678.0	7675.9	7682.3	7724.6	7664.3	7677.0	7657.9	7718.3	7708.7
37.5°	7100.8	7110.3	7112.4	7146.3	7112.4	7120.9	7113.5	7123.0	7092.3
40°	6437.7	6479.0	6492.8	6486.4	6420.8	6398.5	6379.5	6414.4	6375.2
42.5°	5614.7	5633.8	5635.9	5640.2	5622.1	5619.0	5595.7	5610.5	5549.1
45°	4746.2	4754.7	4736.7	4733.5	4745.1	4763.1	4719.7	4685.8	4625.5
47.5°	3952.9	3923.2	3841.7	3871.3	3884.0	3929.6	3883.0	3791.9	3742.1
50°	3118.2	3087.5	3025.0	3038.8	3088.6	3157.4	3103.4	2977.4	2910.6
52.5°	2382.1	2347.2	2277.2	2290.0	2304.8	2356.7	2328.1	2242.3	2177.7
55°	1705.3	1680.9	1704.2	1685.2	1692.6	1742.4	1703.2	1632.2	1615.3
57.5°	1152.4	1166.2	1185.2	1188.4	1173.6	1158.7	1153.5	1125.9	1140.7
60°	763.7	774.3	806.0	815.6	793.3	761.6	767.9	767.9	781.7
62.5°	493.6	503.1	540.2	546.5	514.8	506.3	506.3	503.1	528.5
65°	314.6	333.6	345.3	328.3	327.3	315.6	325.2	325.2	332.6
67.5°	188.5	171.6	183.2	190.7	183.2	173.7	171.6	172.6	183.2
70°	109.1	104.9	112.3	108.0	112.3	97.4	109.1	103.8	107.0
72.5°	69.9	68.8	68.8	73.1	68.8	66.7	71.0	61.4	67.8
75°	64.6	64.6	64.6	56.1	64.6	62.5	65.7	49.8	56.1
77.5°	25.4	29.7	36.0	35.0	35.0	32.8	29.7	25.4	39.2
80°	23.3	21.2	28.6	33.9	21.2	25.4	28.6	18.0	19.1
82.5°	11.7	10.6	13.8	13.8	13.8	7.4	19.1	11.7	9.5
85°	9.5	4.2	6.4	6.4	6.4	8.5	19.1	5.3	13.8
87.5°	2.1	3.2	5.3	5.3	6.4	10.6	19.1	4.2	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)