

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: P248166

Luminaire Tested: **LD8B175D010 ER8B175830 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15765.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

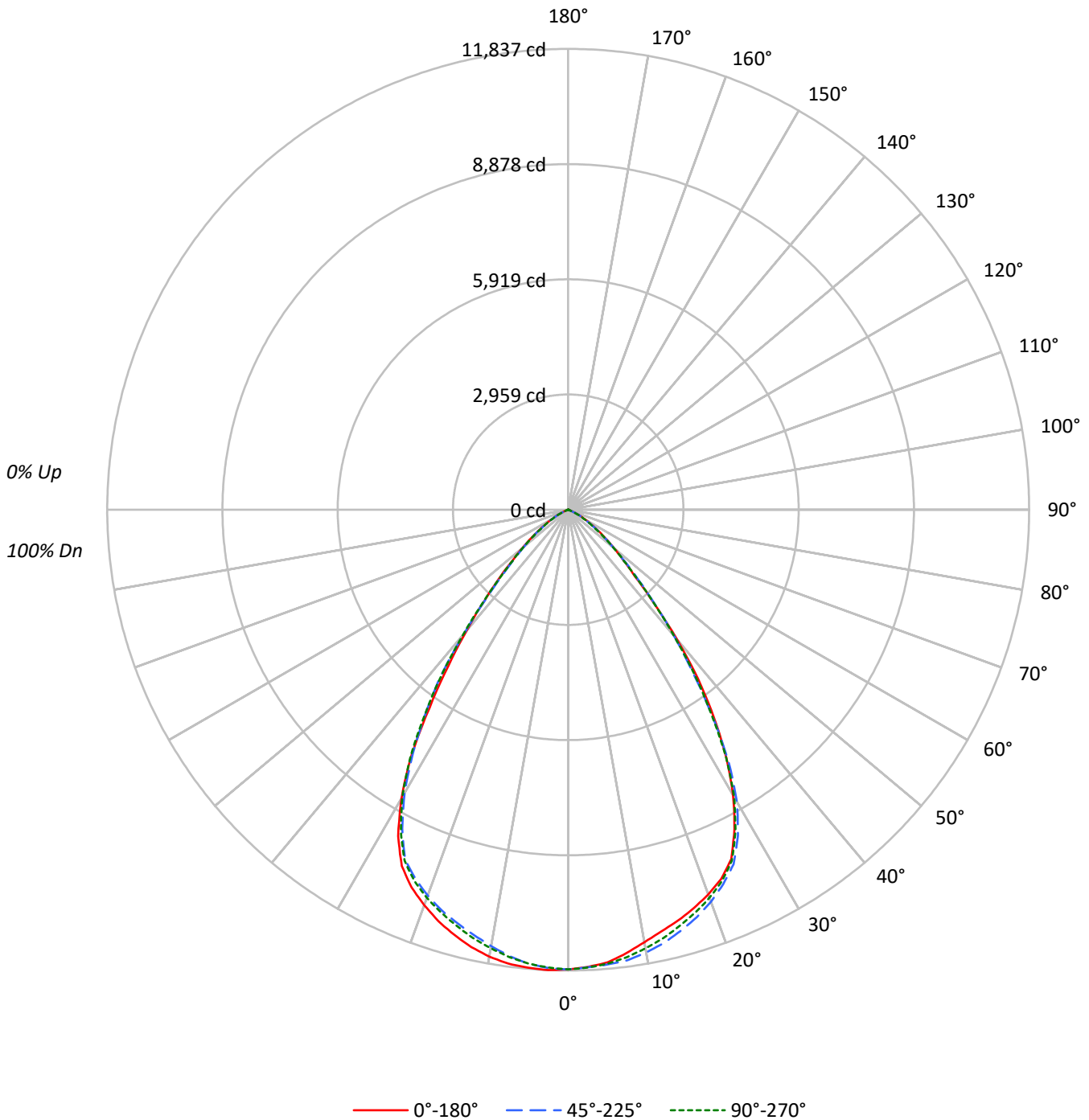
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85					84				
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60					58				
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55					53				
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47					45				
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	364109	364109	364109
5°	361296	362305	365599
10°	353168	358166	364967
15°	348637	353314	360905
20°	345079	348108	354629
25°	336995	338360	343752
30°	301642	303188	304890
35°	245828	240881	233770
40°	174328	169477	163230
45°	106289	108090	110266
50°	73437	72084	73595
55°	49848	46342	47805
60°	32341	28191	29597
65°	17030	13542	14578
70°	4499	3814	3426
75°	774	1549	905
80°	0	0	391
85°	778	778	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.2	7.0
10°-20°	3127.6	19.8
20°-30°	4510.1	28.6
30°-40°	3960.9	25.1
40°-50°	2002.9	12.7
50°-60°	819.8	5.2
60°-70°	215.5	1.4
70°-80°	15.2	0.1
80°-90°	2.7	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°	8748.0	55.5
0°-40°	12708.9	80.6
0°-60°	15531.6	98.5
0°-90°	15765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15765.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11808	11808	11808	11808	11808	
5°	11672	11725	11705	11705	11811	###
15°	10921	11191	11067	10996	11305	3082
25°	9905	10047	9945	9909	10103	4475
35°	6530	6418	6399	6372	6210	4026
45°	2437	2551	2479	2416	2528	2011
55°	927	890	862	860	889	857
65°	233	207	186	184	200	239
75°	6	4	13	4	8	16
85°	2	2	2	1	2	4
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°	11807.8	11807.8	11807.8	11807.8	11807.8	11807.8	11807.8	11807.8	11807.8
2.5°	11753.5	11811.0	11760.0	11790.4	11769.8	11736.1	11782.8	11761.1	11837.1
5°	11672.0	11741.5	11725.2	11763.2	11704.6	11642.7	11704.6	11710.0	11811.0
7.5°	11486.4	11605.8	11674.2	11719.8	11590.6	11489.7	11563.5	11629.7	11760.0
10°	11279.0	11423.4	11547.2	11617.8	11438.6	11291.0	11378.9	11491.8	11655.8
12.5°	11088.0	11247.5	11394.1	11462.5	11273.6	11107.5	11191.1	11331.1	11507.0
15°	10920.8	11052.1	11191.1	11261.7	11067.3	10909.9	10995.7	11124.9	11305.1
17.5°	10729.7	10853.4	10976.1	11031.5	10851.3	10714.5	10792.7	10903.4	11082.5
20°	10515.8	10622.2	10715.6	10780.7	10608.1	10477.8	10548.4	10651.5	10806.8
22.5°	10265.0	10345.4	10406.2	10464.8	10324.7	10195.5	10256.3	10337.8	10501.7
25°	9904.6	9986.0	10046.8	10113.0	9944.7	9834.0	9908.9	9943.7	10103.2
27.5°	9244.5	9347.6	9438.8	9497.4	9305.3	9209.7	9229.3	9286.8	9456.2
30°	8471.5	8521.4	8660.4	8677.8	8514.9	8348.8	8402.0	8462.8	8562.7
32.5°	7553.0	7581.2	7661.6	7670.3	7548.7	7420.6	7421.6	7394.5	7495.5
35°	6530.3	6466.3	6418.5	6451.1	6398.9	6421.7	6371.8	6246.9	6210.0
37.5°	5474.0	5432.7	5223.2	5206.9	5328.5	5402.3	5353.4	5075.5	5056.0
40°	4330.7	4284.1	4205.9	4193.9	4210.2	4252.6	4162.5	4079.9	4055.0
42.5°	3240.7	3265.7	3290.7	3313.5	3266.8	3175.6	3171.2	3156.0	3214.7
45°	2437.3	2490.5	2551.3	2581.7	2478.6	2408.0	2415.6	2449.3	2528.5
47.5°	1927.1	1937.9	1960.7	1986.8	1926.0	1835.9	1859.8	1914.0	1948.8
50°	1530.8	1541.7	1535.1	1531.9	1502.6	1448.3	1481.9	1522.1	1534.1
52.5°	1207.3	1193.2	1181.2	1173.6	1155.2	1133.4	1140.0	1173.6	1192.1
55°	927.2	916.3	890.2	879.4	862.0	856.6	859.9	885.9	889.2
57.5°	697.0	681.8	655.7	635.1	636.2	627.5	631.9	650.3	660.1
60°	524.4	514.6	469.0	472.3	457.1	454.9	464.7	475.5	479.9
62.5°	362.6	365.9	331.1	326.8	319.2	320.3	326.8	335.5	336.6
65°	233.4	219.3	207.4	198.7	185.6	179.1	183.5	207.4	199.8
67.5°	91.2	96.6	78.2	91.2	84.7	71.7	82.5	92.3	87.9
70°	49.9	51.0	42.3	40.2	42.3	39.1	44.5	49.9	38.0
72.5°	31.5	31.5	22.8	22.8	29.3	19.5	22.8	35.8	28.2
75°	6.5	7.6	4.3	2.2	13.0	6.5	4.3	13.0	7.6
77.5°	0.0	7.6	0.0	0.0	0.0	0.0	2.2	2.2	2.2
80°	0.0	0.0	0.0	3.3	0.0	0.0	0.0	2.2	2.2
82.5°	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2	0.0
85°	2.2	8.7	2.2	0.0	2.2	2.2	1.1	6.5	2.2
87.5°	14.1	6.5	1.1	6.5	5.4	6.5	7.6	6.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)