

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: P248115

Luminaire Tested: **LD8B175D010 ER8B175940 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16782.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

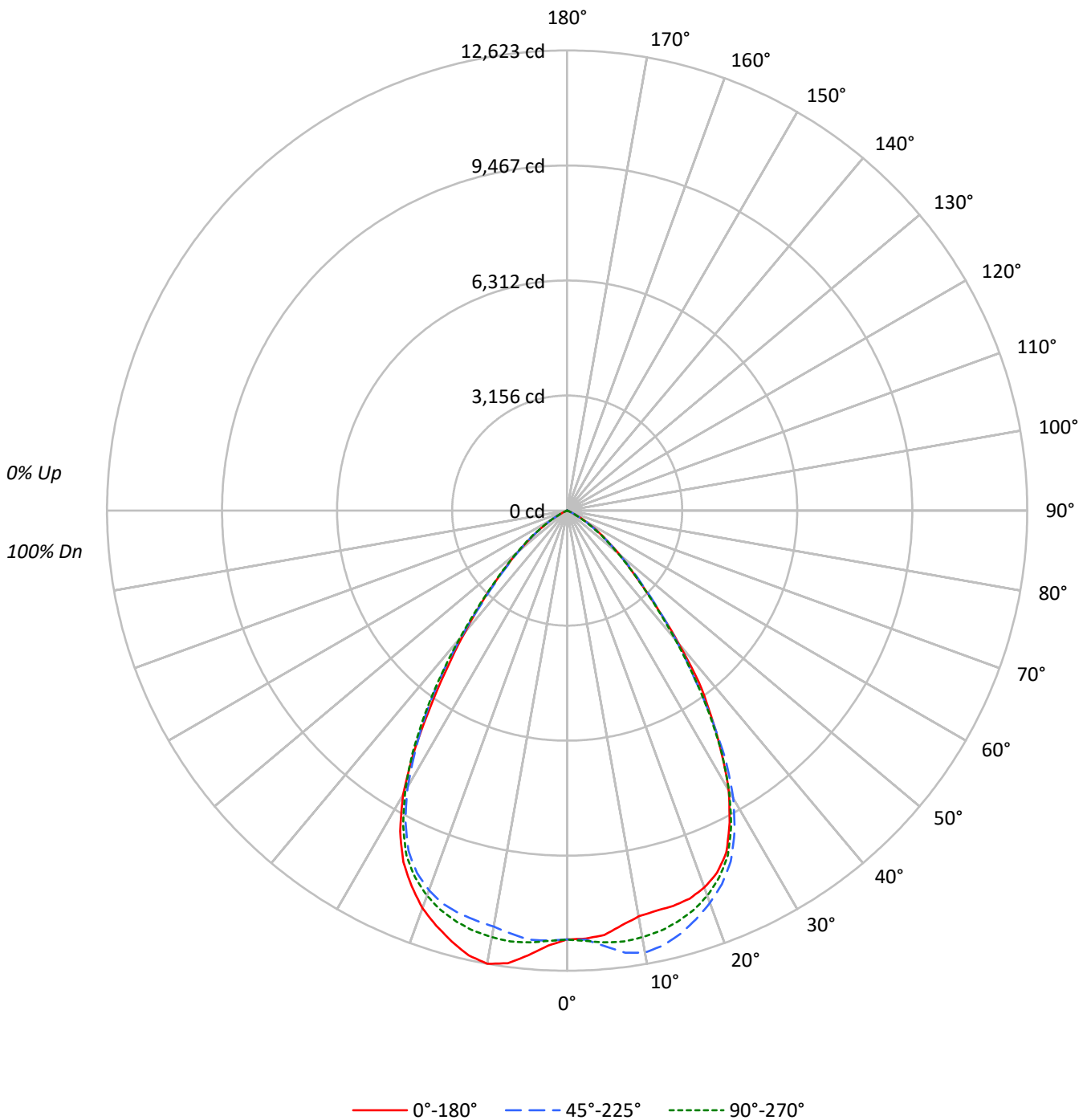
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	88	84	80	86	82	79	83	80	78					76				
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71					69				
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65					63				
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59					58				
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54					53				
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50					49				
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47					45				
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	362789	362789	362789
5°	361714	368032	379021
10°	353932	372068	395242
15°	358380	372921	390611
20°	361057	368913	380858
25°	351813	355096	361904
30°	315579	316405	320197
35°	259256	255435	244379
40°	191540	185345	175874
45°	127038	126074	124186
50°	89867	85962	83938
55°	60062	54654	51681
60°	33797	29332	26729
65°	13061	9391	7778
70°	3805	2173	1812
75°	1072	596	715
80°	0	0	0
85°	708	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.1	6.8
10°-20°	3300.4	19.7
20°-30°	4739.5	28.2
30°-40°	4189.5	25.0
40°-50°	2293.3	13.7
50°-60°	944.1	5.6
60°-70°	169.2	1.0
70°-80°	7.3	0.0
80°-90°	0.6	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°	9178.0	54.7
0°-40°	13367.5	79.7
0°-60°	16604.9	98.9
0°-90°	16782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16782.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11765	11765	11765	11765	11765	
5°	11686	11999	11890	11817	12245	###
15°	11226	12019	11682	11440	12236	3170
25°	10340	10620	10437	10299	10637	4677
35°	6887	6826	6786	6693	6492	4272
45°	2913	2999	2891	2767	2848	2344
55°	1117	1065	1017	983	961	1012
65°	179	140	129	104	107	208
75°	9	4	5	6	6	14
85°	2	2	0	6	0	1
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°	11765.0	11765.0	11765.0	11765.0	11765.0	11765.0	11765.0	11765.0	11765.0
2.5°	11749.9	11771.0	11781.0	11834.3	11816.2	11791.1	11805.2	11848.4	11941.9
5°	11685.5	11798.1	11999.2	12067.6	11889.6	11734.8	11817.2	12053.5	12244.6
7.5°	11473.3	11756.9	12232.5	12336.1	11923.8	11567.9	11711.7	12221.5	12523.1
10°	11303.4	11655.3	12309.0	12462.8	11882.6	11422.1	11590.0	12213.4	12622.7
12.5°	11246.1	11570.9	12212.4	12386.4	11813.2	11370.8	11518.6	12095.8	12496.0
15°	11226.0	11486.4	12019.4	12159.1	11681.5	11320.5	11440.2	11903.7	12235.6
17.5°	11163.6	11357.7	11754.9	11868.5	11500.5	11220.9	11313.5	11673.4	11939.9
20°	11002.7	11167.7	11453.2	11532.7	11242.1	11022.9	11082.2	11352.7	11606.1
22.5°	10751.4	10857.9	11089.2	11127.4	10897.2	10722.2	10759.4	10961.5	11146.5
25°	10340.1	10414.5	10619.6	10629.7	10436.6	10283.8	10298.9	10467.8	10636.7
27.5°	9648.3	9789.0	9939.9	9983.1	9740.8	9561.8	9608.0	9720.7	9918.8
30°	8862.9	8966.5	9114.3	9081.1	8886.1	8725.2	8744.3	8844.8	8992.6
32.5°	7883.5	7993.1	8068.5	8000.2	7901.6	7757.8	7714.6	7757.8	7798.1
35°	6887.0	6924.2	6825.7	6786.5	6785.5	6741.2	6693.0	6562.2	6491.8
37.5°	5935.8	5819.1	5642.1	5566.7	5653.2	5760.8	5616.0	5445.1	5356.6
40°	4758.3	4761.3	4650.7	4572.2	4604.4	4568.2	4504.9	4395.3	4369.1
42.5°	3719.5	3730.6	3765.8	3721.5	3644.1	3526.5	3491.3	3496.3	3573.7
45°	2913.1	2935.2	2998.6	2992.5	2891.0	2816.5	2767.3	2836.7	2847.7
47.5°	2316.8	2348.0	2374.1	2372.1	2293.7	2219.3	2197.1	2210.2	2237.4
50°	1873.3	1870.3	1850.2	1824.1	1791.9	1776.8	1751.7	1749.7	1749.7
52.5°	1443.0	1448.0	1407.8	1409.8	1394.7	1352.5	1341.4	1319.3	1319.3
55°	1117.2	1097.1	1064.9	1033.7	1016.6	987.5	983.4	960.3	961.3
57.5°	793.4	775.3	737.1	718.0	704.9	696.8	679.8	661.7	653.6
60°	548.0	532.9	511.8	492.7	475.6	471.6	455.5	437.4	433.4
62.5°	330.8	326.8	289.6	282.6	269.5	263.5	252.4	240.3	241.3
65°	179.0	152.8	139.8	131.7	128.7	112.6	103.6	101.6	106.6
67.5°	48.3	48.3	39.2	37.2	37.2	27.1	31.2	30.2	39.2
70°	42.2	30.2	26.1	21.1	24.1	14.1	26.1	21.1	20.1
72.5°	22.1	12.1	10.1	10.1	11.1	7.0	16.1	9.0	7.0
75°	9.0	6.0	4.0	2.0	5.0	5.0	6.0	2.0	6.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	3.0	2.0	0.0	0.0	0.0	6.0	0.0	0.0
87.5°	0.0	2.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)