

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: P248194

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248194
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: LD8B200D010 ER8B2009727 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13456.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

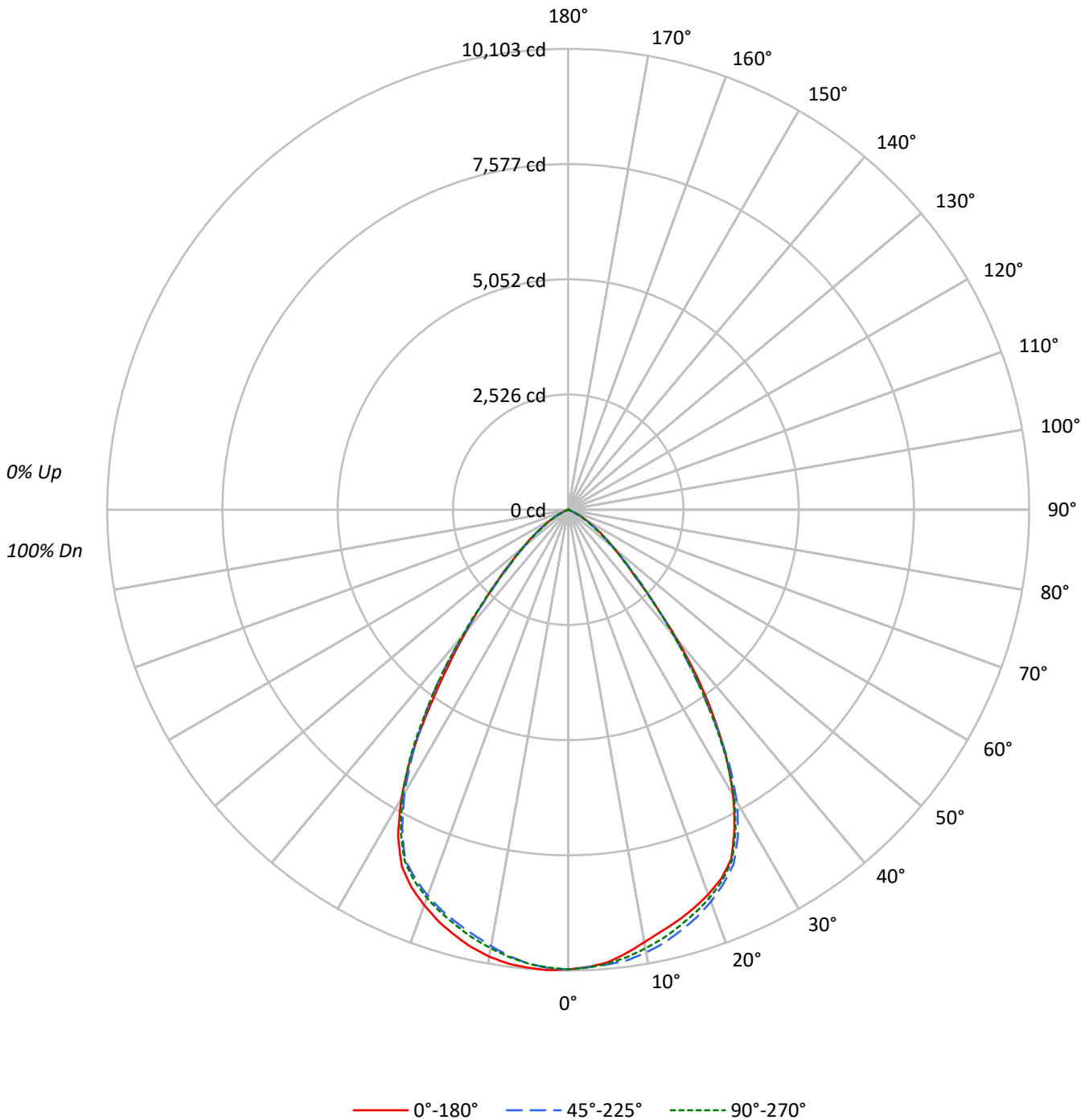
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248194

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248194

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBW0GPH

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	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°	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°			



TEST NUMBER: P248194

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.6	7.0
10°-20°	2669.5	19.8
20°-30°	3849.5	28.6
30°-40°	3380.8	25.1
40°-50°	1709.5	12.7
50°-60°	699.7	5.2
60°-70°	183.9	1.4
70°-80°	13.0	0.1
80°-90°	2.3	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°	7466.7	55.5
0°-40°	10847.5	80.6
0°-60°	13256.8	98.5
0°-90°	13456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13456.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10078	10078	10078	10078	10078	
5°	9962	10008	9990	9990	10081	939
15°	9321	9552	9446	9385	9649	2630
25°	8454	8575	8488	8458	8624	3819
35°	5574	5478	5462	5439	5300	3436
45°	2080	2178	2116	2062	2158	1716
55°	791	760	736	734	759	731
65°	199	177	158	157	170	204
75°	6	4	11	4	6	14
85°	2	2	2	1	2	4
90°	0	0	0	0	0	



TEST NUMBER: P248194

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10078.3	10078.3	10078.3	10078.3	10078.3	10078.3	10078.3	10078.3	10078.3
2.5°	10032.0	10081.1	10037.6	10063.5	10045.9	10017.2	10057.0	10038.5	10103.4
5°	9962.5	10021.8	10007.9	10040.4	9990.3	9937.5	9990.3	9994.9	10081.1
7.5°	9804.1	9906.0	9964.4	10003.3	9893.0	9806.8	9869.8	9926.4	10037.6
10°	9627.1	9750.3	9855.9	9916.2	9763.3	9637.3	9712.3	9808.7	9948.6
12.5°	9464.0	9600.2	9725.3	9783.7	9622.4	9480.6	9552.0	9671.5	9821.7
15°	9321.3	9433.4	9552.0	9612.2	9446.4	9312.0	9385.2	9495.5	9649.3
17.5°	9158.2	9263.8	9368.5	9415.8	9262.0	9145.2	9211.9	9306.4	9459.3
20°	8975.6	9066.4	9146.1	9201.7	9054.4	8943.2	9003.4	9091.5	9224.0
22.5°	8761.6	8830.1	8882.0	8932.1	8812.5	8702.3	8754.1	8823.6	8963.6
25°	8453.9	8523.4	8575.3	8631.8	8488.2	8393.7	8457.6	8487.3	8623.5
27.5°	7890.5	7978.5	8056.4	8106.4	7942.4	7860.8	7877.5	7926.6	8071.2
30°	7230.7	7273.3	7392.0	7406.8	7267.8	7126.0	7171.4	7223.3	7308.6
32.5°	6446.8	6470.9	6539.4	6546.8	6443.1	6333.7	6334.6	6311.5	6397.7
35°	5573.9	5519.2	5478.4	5506.2	5461.7	5481.2	5438.6	5332.0	5300.5
37.5°	4672.2	4637.0	4458.2	4444.3	4548.0	4611.1	4569.4	4332.1	4315.5
40°	3696.4	3656.6	3589.9	3579.7	3593.6	3629.7	3552.8	3482.4	3461.1
42.5°	2766.1	2787.4	2808.7	2828.2	2788.3	2710.5	2706.8	2693.8	2743.8
45°	2080.3	2125.8	2177.6	2203.6	2115.6	2055.3	2061.8	2090.5	2158.2
47.5°	1644.8	1654.1	1673.5	1695.8	1643.9	1567.0	1587.4	1633.7	1663.4
50°	1306.6	1315.9	1310.3	1307.5	1282.5	1236.2	1264.9	1299.2	1309.4
52.5°	1030.4	1018.4	1008.2	1001.7	986.0	967.4	973.0	1001.7	1017.5
55°	791.4	782.1	759.9	750.6	735.8	731.1	733.9	756.2	758.9
57.5°	594.9	581.9	559.7	542.1	543.0	535.6	539.3	555.1	563.4
60°	447.6	439.2	400.3	403.1	390.1	388.3	396.6	405.9	409.6
62.5°	309.5	312.3	282.6	278.9	272.4	273.4	278.9	286.3	287.3
65°	199.2	187.2	177.0	169.6	158.5	152.9	156.6	177.0	170.5
67.5°	77.8	82.5	66.7	77.8	72.3	61.2	70.4	78.8	75.1
70°	42.6	43.6	36.1	34.3	36.1	33.4	38.0	42.6	32.4
72.5°	26.9	26.9	19.5	19.5	25.0	16.7	19.5	30.6	24.1
75°	5.6	6.5	3.7	1.9	11.1	5.6	3.7	11.1	6.5
77.5°	0.0	6.5	0.0	0.0	0.0	0.0	1.9	1.9	1.9
80°	0.0	0.0	0.0	2.8	0.0	0.0	0.0	1.9	1.9
82.5°	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.9	0.0
85°	1.9	7.4	1.9	0.0	1.9	1.9	0.9	5.6	1.9
87.5°	12.0	5.6	0.9	5.6	4.6	5.6	6.5	5.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)