

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: P247945

Luminaire Tested: **LD8B200D010 ER8B200930 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200930 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17878.8 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

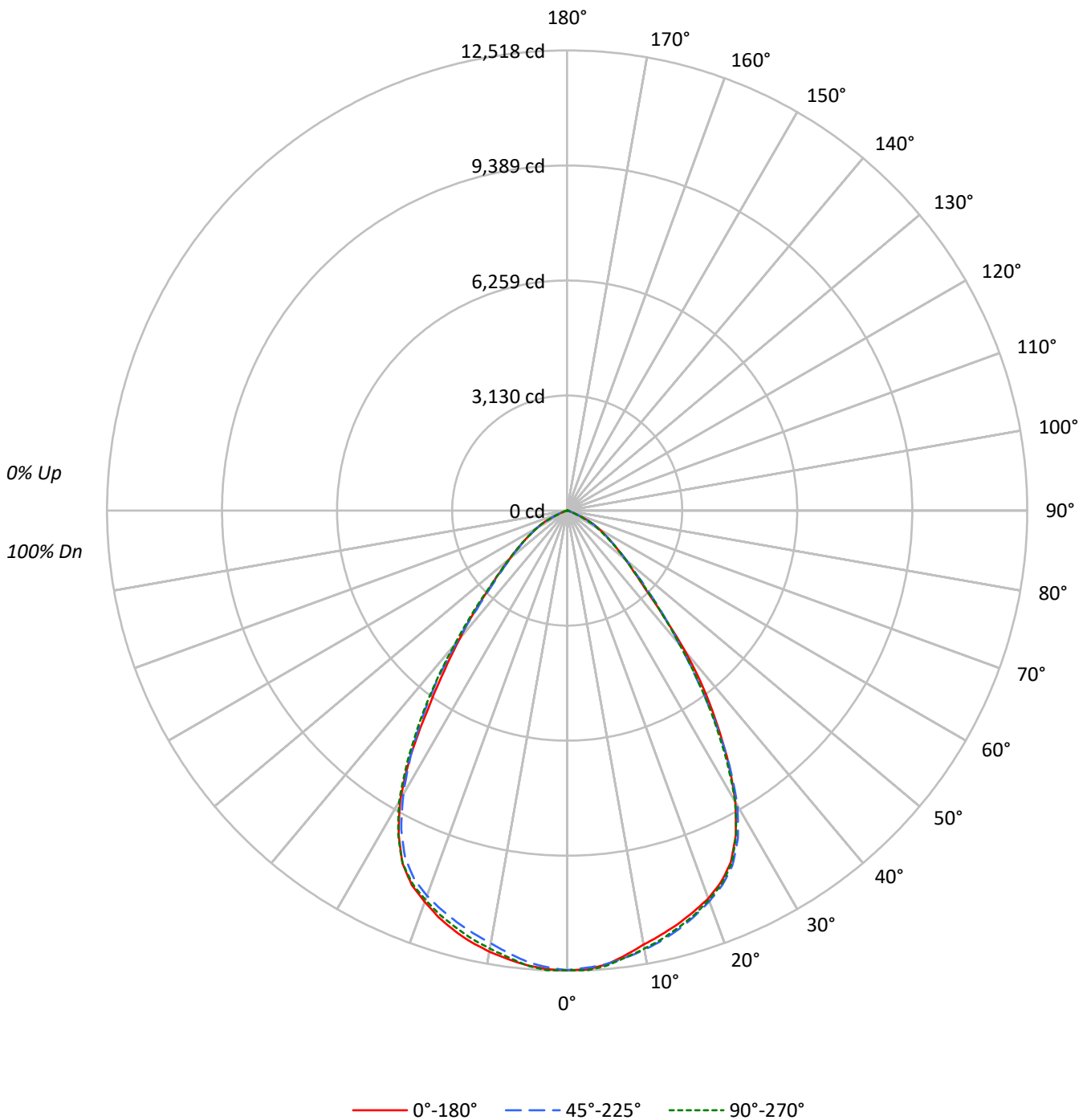
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

**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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1171.0	6.5
10°-20°	3301.4	18.5
20°-30°	4786.5	26.8
30°-40°	4302.4	24.1
40°-50°	2424.5	13.6
50°-60°	1291.8	7.2
60°-70°	516.3	2.9
70°-80°	68.7	0.4
80°-90°	16.2	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°	9258.9	51.8
0°-40°	13561.4	75.9
0°-60°	17277.6	96.6
0°-90°	17878.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17878.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12502	12502	12502	12502	12502	
5°	12390	12379	12425	12328	12419	###
15°	11642	11777	11735	11590	11833	3285
25°	10545	10644	10586	10422	10594	4787
35°	7123	7020	6963	6867	6615	4419
45°	2977	3139	3055	2911	2986	2446
55°	1448	1453	1422	1389	1410	1320
65°	557	531	492	478	498	552
75°	44	56	54	53	44	65
85°	2	13	7	19	4	6
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°	12502.4	12502.4	12502.4	12502.4	12502.4	12502.4	12502.4	12502.4	12502.4
2.5°	12493.5	12467.2	12447.4	12484.8	12517.8	12427.6	12434.2	12473.8	12486.9
5°	12390.3	12366.1	12379.3	12410.0	12425.4	12312.3	12327.6	12394.7	12418.9
7.5°	12196.8	12215.5	12262.7	12302.3	12256.2	12123.2	12145.1	12260.6	12307.8
10°	11987.0	12030.9	12129.8	12176.0	12097.9	11927.6	11952.9	12107.8	12182.6
12.5°	11819.8	11868.3	11971.5	12006.7	11937.4	11753.9	11780.4	11940.8	12029.8
15°	11641.8	11685.8	11777.0	11805.6	11735.3	11566.0	11590.1	11744.0	11833.1
17.5°	11440.7	11479.2	11560.5	11586.9	11525.3	11346.2	11384.7	11527.6	11605.6
20°	11228.6	11256.1	11313.2	11328.6	11269.3	11134.1	11151.7	11274.8	11325.4
22.5°	10939.6	10974.7	11027.5	11044.0	10989.1	10840.6	10857.1	10978.1	11033.0
25°	10545.0	10596.7	10643.9	10664.9	10585.7	10389.0	10421.9	10525.3	10594.5
27.5°	9932.8	9974.7	10058.2	10060.3	9951.6	9747.1	9774.6	9907.6	9925.2
30°	9146.0	9184.5	9258.1	9241.6	9137.2	8894.4	8916.3	9046.0	9075.6
32.5°	8182.2	8196.4	8216.3	8210.8	8083.2	7969.0	7923.9	7939.3	7950.2
35°	7122.7	7147.9	7020.5	6951.2	6963.3	6973.2	6866.6	6708.4	6614.9
37.5°	6096.2	5975.4	5818.2	5764.3	5864.3	5897.2	5800.6	5564.3	5477.4
40°	4980.7	4873.0	4748.8	4758.8	4756.5	4779.6	4657.6	4570.8	4541.2
42.5°	3833.4	3834.5	3915.8	3859.7	3848.7	3688.3	3641.0	3689.4	3742.1
45°	2977.3	3076.1	3138.8	3122.3	3055.3	2911.2	2911.2	2995.9	2986.0
47.5°	2450.8	2485.9	2533.2	2529.9	2481.6	2376.1	2393.7	2451.9	2481.6
50°	2071.6	2087.1	2109.0	2090.3	2060.6	1994.7	1993.6	2034.3	2051.9
52.5°	1733.2	1741.9	1736.4	1726.6	1710.1	1674.9	1663.9	1698.0	1702.4
55°	1448.4	1465.0	1452.9	1425.5	1422.1	1390.3	1389.1	1416.6	1410.0
57.5°	1206.8	1190.3	1173.8	1150.7	1147.3	1137.5	1148.5	1152.8	1146.2
60°	1004.5	1005.6	973.7	951.7	949.6	935.3	950.6	962.7	962.7
62.5°	808.9	804.4	784.7	751.7	757.2	751.7	758.4	760.5	750.6
65°	557.2	558.3	530.8	491.2	492.3	488.0	478.1	493.5	497.8
67.5°	296.7	294.5	273.6	259.4	253.9	256.0	267.0	270.4	258.3
70°	161.5	156.0	160.4	145.1	148.4	142.9	148.4	157.2	153.9
72.5°	82.4	87.9	79.1	72.5	81.3	80.3	93.4	85.8	76.9
75°	43.9	47.3	56.0	51.7	53.8	51.7	52.8	49.4	43.9
77.5°	31.8	35.2	40.7	39.6	38.5	36.3	40.7	45.1	36.3
80°	18.7	23.1	25.2	29.7	26.3	29.7	34.1	27.5	22.0
82.5°	12.1	18.7	18.7	19.7	28.6	18.7	30.8	27.5	22.0
85°	2.2	3.3	13.2	7.7	6.6	19.7	18.7	14.2	4.4
87.5°	0.0	7.7	17.6	8.7	14.2	13.2	18.7	19.7	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)