

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: P247909

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200930 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19932.5 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

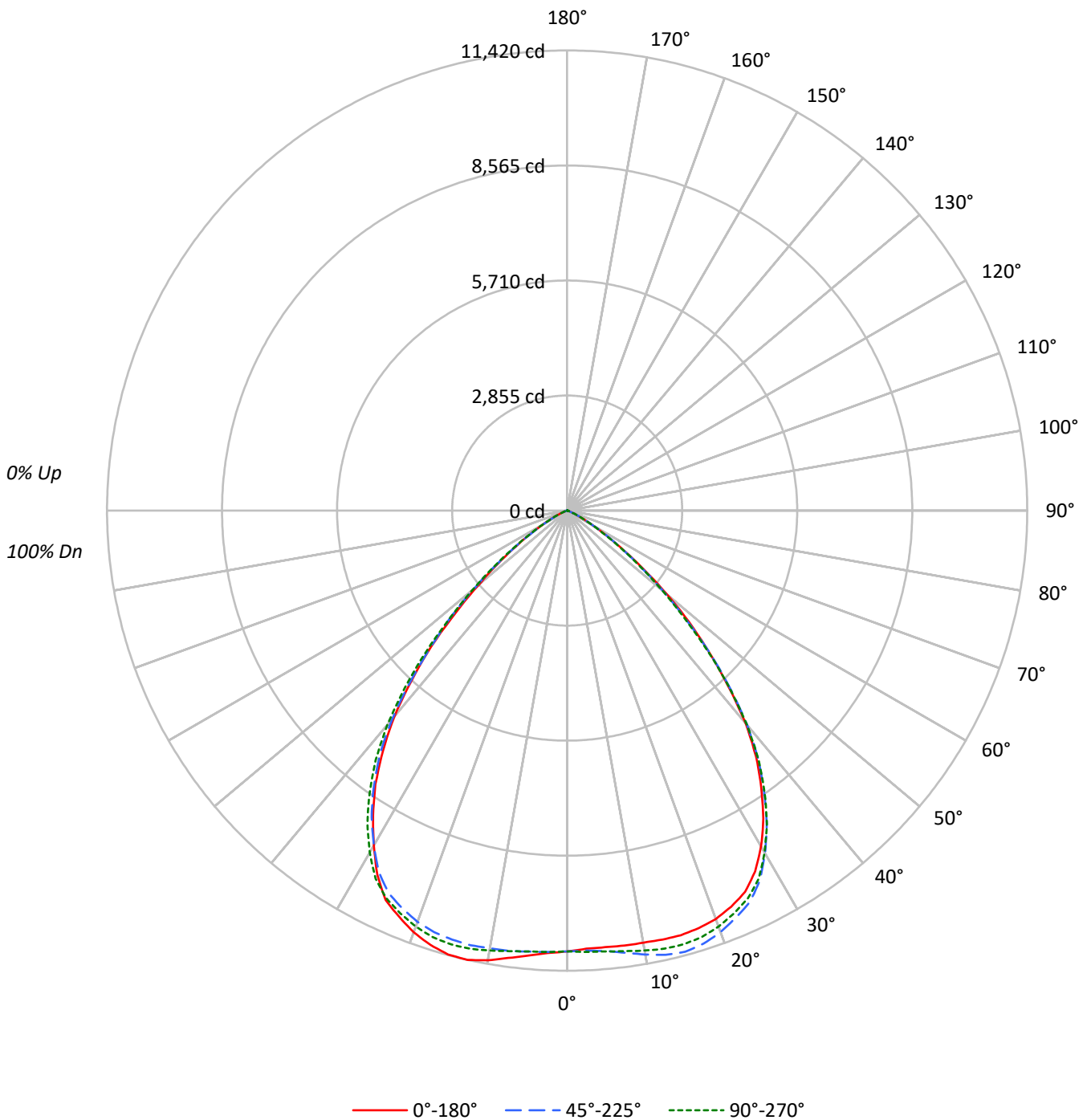
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

**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°	1052.1	5.3
10°-20°	3150.0	15.8
20°-30°	4841.2	24.3
30°-40°	5237.2	26.3
40°-50°	3774.9	18.9
50°-60°	1532.3	7.7
60°-70°	306.0	1.5
70°-80°	30.6	0.2
80°-90°	8.2	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°	9043.2	45.4
0°-40°	14280.4	71.6
0°-60°	19587.6	98.3
0°-90°	19932.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19932.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10940	10940	10940	10940	10940	
5°	10877	10969	10981	10986	11084	###
15°	10910	11333	11146	11022	11406	3083
25°	10444	10722	10614	10478	10666	4774
35°	8398	8521	8545	8370	8293	5215
45°	4991	5015	4950	4784	4761	3849
55°	1711	1658	1650	1594	1545	1605
65°	266	288	256	244	263	317
75°	24	30	26	25	26	32
85°	10	14	19	9	8	8
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°	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6
2.5°	10883.6	10952.8	10929.8	10900.0	10962.7	10950.6	10963.8	10969.3	10990.2
5°	10877.0	10955.1	10969.3	10937.5	10981.4	10960.6	10985.8	11033.1	11083.7
7.5°	10887.9	11005.5	11067.2	11048.5	11027.6	10956.1	11022.1	11130.9	11197.9
10°	10887.9	11044.1	11186.9	11185.8	11086.9	10954.0	11027.6	11215.5	11333.1
12.5°	10905.5	11096.8	11292.4	11305.6	11137.5	10969.3	11048.5	11270.4	11420.0
15°	10910.0	11097.9	11333.1	11339.7	11146.2	10948.5	11022.1	11260.6	11405.6
17.5°	10863.8	11045.1	11268.3	11291.4	11096.8	10895.7	10970.4	11183.7	11299.0
20°	10786.9	10949.5	11130.9	11169.3	10985.8	10794.6	10860.5	11044.1	11137.5
22.5°	10639.6	10787.9	10937.5	10966.1	10818.8	10651.7	10684.7	10827.5	10905.5
25°	10444.0	10591.2	10722.0	10737.4	10614.3	10464.9	10478.1	10586.8	10666.0
27.5°	10096.7	10236.3	10355.0	10373.6	10300.0	10140.7	10116.5	10168.1	10201.1
30°	9626.4	9722.0	9820.9	9880.2	9794.5	9662.6	9594.4	9621.9	9592.3
32.5°	9061.4	9159.2	9219.7	9238.4	9225.2	9109.8	9029.5	8960.3	8964.7
35°	8397.6	8486.6	8520.7	8554.8	8544.9	8454.8	8370.2	8305.3	8293.2
37.5°	7701.9	7761.2	7799.7	7826.1	7804.2	7747.0	7637.0	7524.9	7506.3
40°	6885.4	6975.5	6944.7	6957.9	6937.0	6864.4	6754.6	6690.8	6673.2
42.5°	5927.1	6006.1	5999.6	6004.0	5957.8	5858.9	5763.3	5728.1	5709.4
45°	4990.7	5029.1	5014.8	4968.7	4950.0	4888.5	4784.0	4716.9	4761.0
47.5°	4109.2	4096.0	4000.4	3963.1	3935.6	3944.4	3921.3	3803.7	3740.0
50°	3223.4	3189.4	3098.1	3042.1	3072.9	3097.0	3011.3	2940.9	2862.9
52.5°	2390.4	2396.9	2310.2	2248.6	2277.2	2281.6	2231.0	2191.4	2168.4
55°	1711.2	1711.2	1658.4	1638.7	1649.7	1628.7	1593.6	1580.4	1545.2
57.5°	1163.8	1171.6	1168.3	1145.2	1093.5	1074.8	1055.1	1074.8	1086.9
60°	748.4	767.1	763.8	761.6	717.7	673.7	692.3	709.9	712.2
62.5°	460.5	469.3	484.7	471.5	449.5	414.3	409.9	436.3	460.5
65°	266.0	275.9	288.0	279.1	256.0	250.5	243.9	258.3	262.7
67.5°	151.7	147.3	148.4	141.8	135.2	127.5	128.6	135.2	145.1
70°	80.3	69.3	70.3	63.8	69.3	61.5	59.3	64.8	67.0
72.5°	40.7	39.6	45.1	45.1	48.3	42.8	42.8	40.7	46.2
75°	24.2	27.5	29.7	33.0	26.3	25.2	25.2	25.2	26.3
77.5°	6.6	3.3	4.4	14.2	5.5	11.0	5.5	4.4	9.9
80°	18.7	11.0	6.6	12.1	13.2	6.6	16.5	15.4	4.4
82.5°	6.6	0.0	12.1	13.2	11.0	11.0	13.2	13.2	12.1
85°	9.9	6.6	14.2	16.5	18.7	11.0	8.7	5.5	7.7
87.5°	4.4	0.0	6.6	5.5	3.3	1.1	3.3	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)