

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: P247981

Luminaire Tested: **LD8B200D010 ER8B200930 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200930 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 19373.1 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

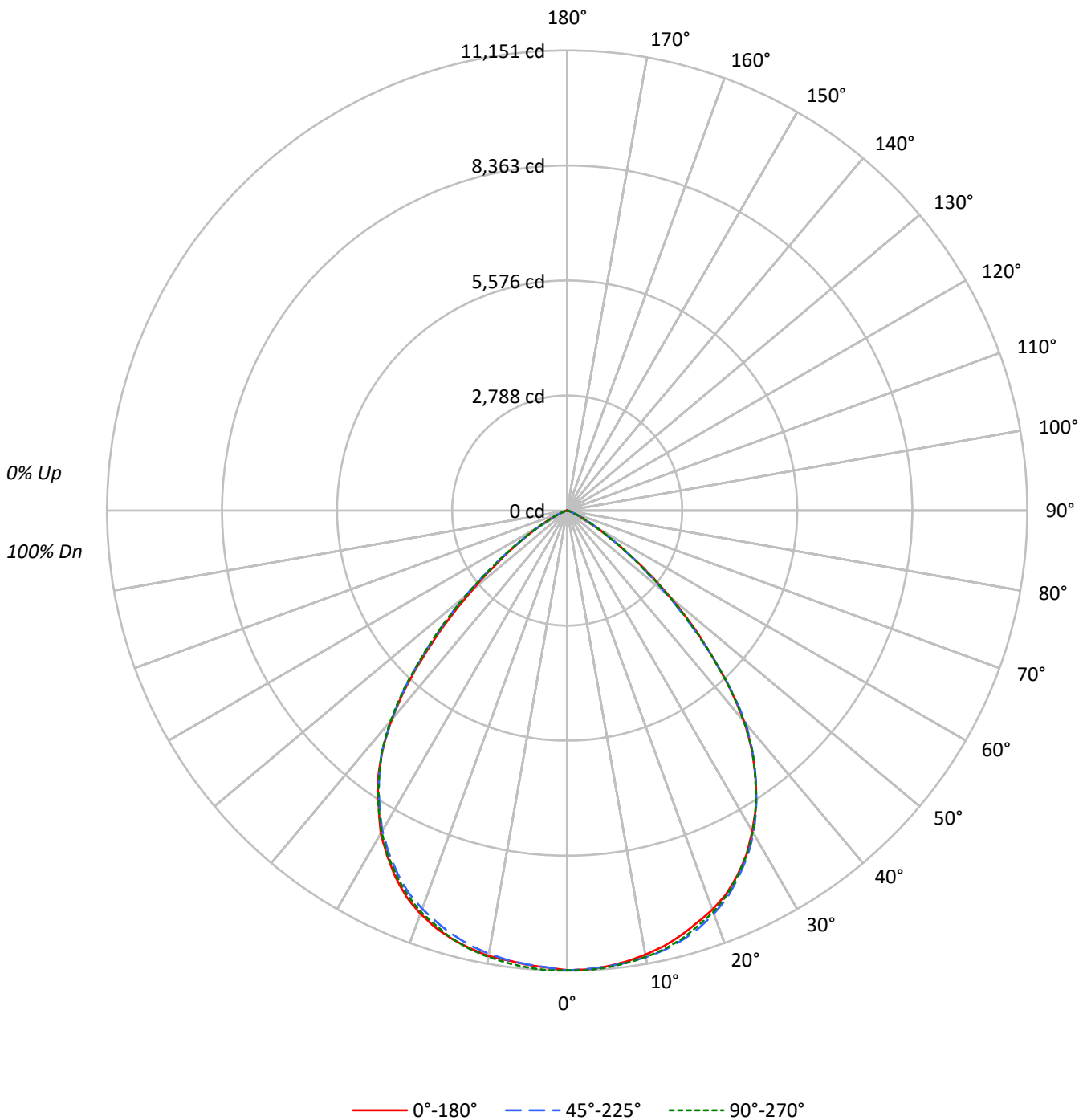
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

**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°	1054.7	5.4
10°-20°	3025.2	15.6
20°-30°	4494.3	23.2
30°-40°	4952.9	25.6
40°-50°	3772.4	19.5
50°-60°	1626.2	8.4
60°-70°	373.6	1.9
70°-80°	62.1	0.3
80°-90°	11.6	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°	8574.2	44.3
0°-40°	13527.1	69.8
0°-60°	18925.8	97.7
0°-90°	19373.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19373.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11140	11140	11140	11140	11140	
5°	11089	11088	11115	11041	11048	###
15°	10657	10776	10743	10647	10750	3006
25°	9758	9813	9769	9712	9824	4478
35°	7967	7971	7952	7946	7999	4946
45°	4925	4915	4924	4897	4799	3799
55°	1769	1768	1756	1767	1676	1650
65°	326	358	340	337	345	365
75°	67	67	67	68	58	62
85°	10	7	7	20	14	10
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°	11139.6	11139.6	11139.6	11139.6	11139.6	11139.6	11139.6	11139.6	11139.6
2.5°	11127.5	11128.6	11120.9	11137.4	11150.6	11107.8	11082.4	11139.6	11084.7
5°	11089.0	11096.8	11087.9	11108.9	11115.4	11080.3	11040.7	11102.3	11048.4
7.5°	11023.1	11038.5	11051.7	11075.8	11058.3	11014.3	10987.9	11060.5	10994.5
10°	10924.1	10962.7	10991.3	11027.5	10984.7	10937.4	10905.5	11004.4	10960.5
12.5°	10813.2	10857.1	10905.5	10949.5	10884.7	10815.4	10798.9	10904.4	10864.8
15°	10657.1	10697.8	10775.8	10817.6	10742.9	10663.7	10647.3	10781.3	10750.5
17.5°	10473.6	10545.0	10610.9	10644.0	10549.4	10481.4	10472.5	10610.9	10598.9
20°	10292.2	10330.7	10398.8	10442.8	10352.7	10271.4	10268.1	10411.0	10398.8
22.5°	10062.5	10096.6	10141.7	10182.4	10097.7	10029.6	10034.0	10151.6	10149.4
25°	9758.2	9781.2	9813.1	9858.2	9769.2	9720.8	9712.0	9837.2	9824.1
27.5°	9403.2	9418.5	9454.9	9493.3	9416.4	9373.5	9358.1	9483.4	9439.4
30°	8971.3	9006.5	9031.7	9048.2	8991.0	8964.6	8953.7	9052.5	9031.7
32.5°	8513.0	8525.1	8526.1	8566.8	8506.4	8469.0	8469.0	8548.2	8500.9
35°	7966.7	7964.6	7971.1	8015.2	7952.5	7965.6	7945.9	8008.5	7998.7
37.5°	7367.8	7377.6	7379.9	7415.1	7379.9	7388.6	7381.0	7390.9	7359.0
40°	6679.8	6722.6	6737.0	6730.4	6662.2	6639.1	6619.4	6655.6	6615.0
42.5°	5825.8	5845.7	5847.8	5852.3	5833.6	5830.3	5806.1	5821.5	5757.7
45°	4924.7	4933.5	4914.8	4911.5	4923.5	4942.3	4897.2	4862.0	4799.4
47.5°	4101.5	4070.8	3986.2	4016.9	4030.1	4077.3	4029.0	3934.5	3882.8
50°	3235.5	3203.6	3138.8	3153.0	3204.7	3276.1	3220.1	3089.4	3020.1
52.5°	2471.7	2435.4	2362.8	2376.1	2391.4	2445.3	2415.6	2326.6	2259.6
55°	1769.4	1744.2	1768.3	1748.5	1756.3	1807.8	1767.3	1693.6	1676.0
57.5°	1195.8	1210.0	1229.8	1233.1	1217.7	1202.3	1196.8	1168.3	1183.7
60°	792.4	803.4	836.4	846.2	823.2	790.2	796.8	796.8	811.0
62.5°	512.2	522.0	560.5	567.1	534.2	525.3	525.3	522.0	548.4
65°	326.4	346.2	358.3	340.7	339.6	327.6	337.4	337.4	345.0
67.5°	195.6	178.0	190.1	197.9	190.1	180.3	178.0	179.1	190.1
70°	113.2	108.8	116.5	112.1	116.5	101.1	113.2	107.7	111.0
72.5°	72.5	71.4	71.4	75.8	71.4	69.3	73.6	63.8	70.3
75°	67.0	67.0	67.0	58.3	67.0	64.8	68.2	51.7	58.3
77.5°	26.3	30.8	37.3	36.3	36.3	34.1	30.8	26.3	40.7
80°	24.2	22.0	29.7	35.2	22.0	26.3	29.7	18.7	19.7
82.5°	12.1	11.0	14.2	14.2	14.2	7.7	19.7	12.1	9.9
85°	9.9	4.4	6.6	6.6	6.6	8.7	19.7	5.5	14.2
87.5°	2.2	3.3	5.5	5.5	6.6	11.0	19.7	4.4	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)