

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: P250203

Luminaire Tested: **LD8B200D010 ER8B200930 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200930 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17774.6 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

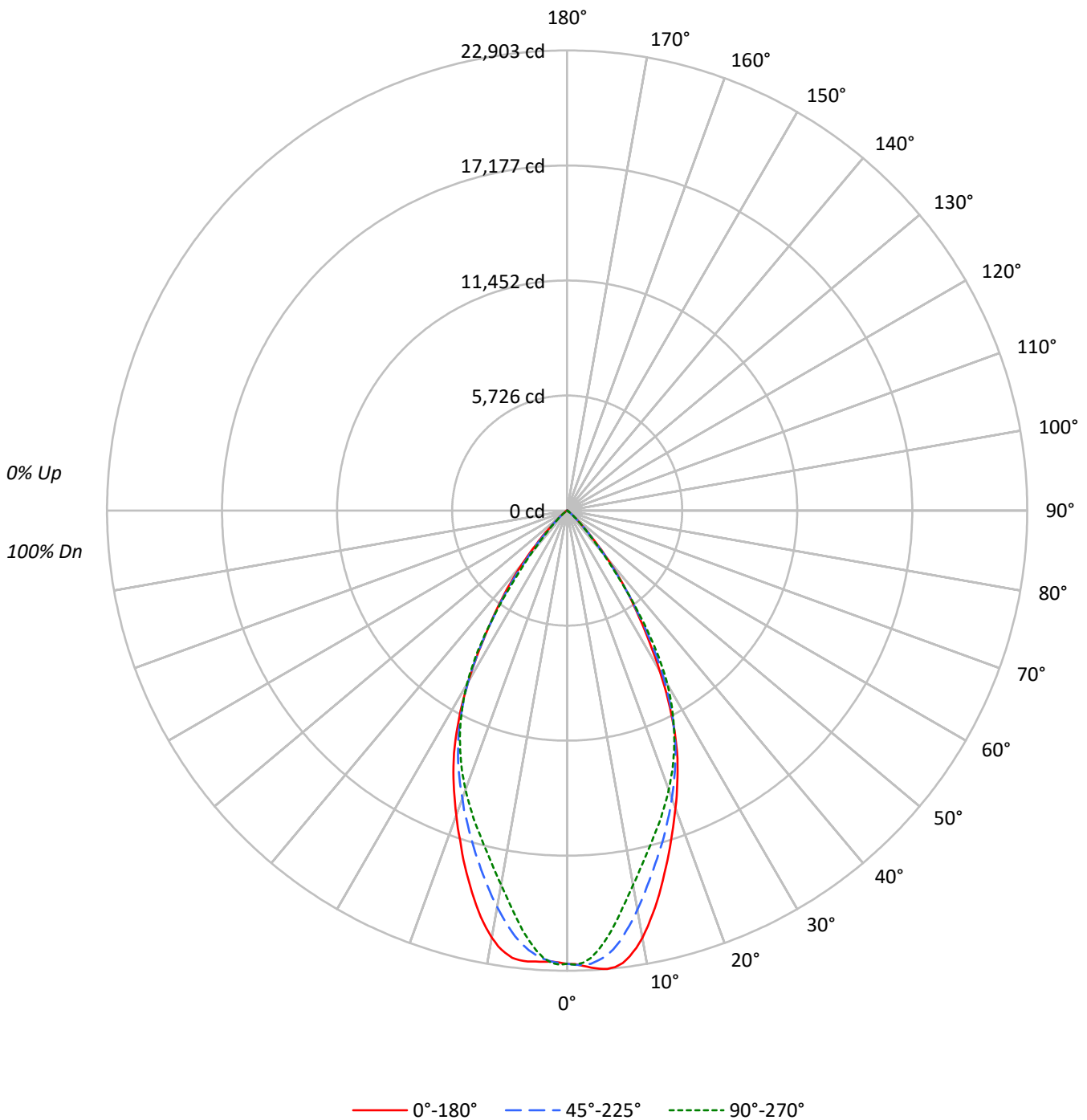
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250203

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBM0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P250203

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBM0WH

**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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

**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: P250203

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBM0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2047.8	11.5
10°-20°	4952.9	27.9
20°-30°	5805.0	32.7
30°-40°	3819.4	21.5
40°-50°	996.7	5.6
50°-60°	122.6	0.7
60°-70°	25.4	0.1
70°-80°	4.7	0.0
80°-90°	0.1	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°	12805.6	72.0
0°-40°	16625.0	93.5
0°-60°	17744.3	99.8
0°-90°	17774.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17774.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	22558	22558	22558	22558	22558	
5°	22903	22250	21516	21960	22530	###
15°	18696	17638	16738	17638	19014	5212
25°	12845	12718	12625	12839	13316	5791
35°	5841	5972	6176	6236	6334	3657
45°	1135	1069	998	1157	1349	1018
55°	88	93	104	104	99	116
65°	33	27	27	22	22	23
75°	0	6	0	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250203

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBM0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	22557.5	22557.5	22557.5	22557.5	22557.5	22557.5	22557.5	22557.5	22557.5
1°	22573.9	22606.9	22617.7	22650.8	22601.4	22568.5	22524.6	22491.6	22497.1
2°	22672.7	22689.2	22628.7	22606.9	22519.1	22491.6	22458.8	22453.3	22458.8
3°	22776.9	22744.0	22584.9	22436.9	22305.2	22288.7	22349.2	22436.9	22486.1
4°	22859.2	22771.4	22436.9	22162.6	21954.2	21937.9	22179.1	22403.9	22497.1
5°	22903.0	22744.0	22250.4	21789.7	21515.5	21619.6	21959.7	22360.0	22530.0
6°	22842.7	22606.9	21965.2	21351.0	21038.3	21175.5	21674.5	22255.9	22508.1
7°	22689.2	22387.5	21597.7	20873.8	20489.9	20703.7	21339.9	22080.3	22425.8
8°	22403.9	22042.0	21131.5	20319.8	19941.4	20182.7	20928.6	21828.0	22228.4
9°	22030.9	21630.6	20670.9	19815.2	19409.4	19694.6	20500.8	21493.5	21954.2
10°	21586.8	21159.0	20160.8	19288.8	18921.4	19190.1	20040.1	21104.1	21581.3
11°	21065.7	20654.4	19650.7	18795.2	18444.1	18707.5	19579.5	20637.9	21153.5
12°	20500.8	20122.4	19129.8	18318.0	17989.0	18241.2	19085.9	20155.2	20665.4
13°	19935.9	19557.4	18625.2	17857.3	17555.6	17797.0	18603.2	19628.8	20138.8
14°	19327.2	18981.7	18120.6	17418.5	17144.3	17374.6	18109.6	19096.8	19579.5
15°	18696.5	18422.2	17637.9	16996.3	16738.5	16957.8	17637.9	18548.3	19014.5
16°	18104.2	17851.8	17171.7	16579.4	16365.6	16541.0	17160.8	18000.0	18444.1
17°	17500.8	17270.5	16705.6	16168.1	15976.2	16146.2	16672.6	17446.0	17846.3
18°	16897.6	16705.6	16195.6	15734.9	15564.9	15718.4	16190.2	16886.5	17248.5
19°	16338.1	16162.6	15729.4	15340.0	15186.4	15323.5	15767.8	16349.1	16711.1
20°	15762.3	15619.7	15241.2	14923.2	14780.5	14906.6	15252.2	15817.2	16135.2
21°	15208.4	15082.2	14753.1	14484.3	14369.2	14473.5	14791.5	15301.6	15581.2
22°	14632.5	14561.2	14265.1	14040.2	13963.4	14029.2	14319.9	14758.6	15022.0
23°	14067.5	14001.7	13776.9	13590.4	13524.6	13590.4	13848.3	14243.1	14478.9
24°	13497.2	13426.0	13261.4	13140.7	13085.9	13140.7	13360.1	13694.6	13919.6
25°	12844.6	12833.7	12718.4	12652.6	12625.3	12685.5	12839.1	13129.8	13316.1
26°	12219.2	12186.4	12153.5	12142.6	12148.1	12180.9	12307.0	12526.4	12674.6
27°	11451.6	11500.9	11550.2	11616.0	11637.9	11665.5	11725.7	11884.7	11994.5
28°	10716.5	10809.8	10930.4	11062.1	11122.4	11122.4	11127.8	11215.6	11308.9
29°	9987.2	10085.9	10277.9	10475.3	10557.6	10546.5	10502.6	10541.0	10595.9
30°	9224.8	9350.9	9608.8	9866.6	9987.2	9943.3	9861.1	9822.7	9855.6
31°	8479.0	8605.1	8890.3	9170.0	9329.0	9279.8	9137.0	9109.7	9126.1
32°	7766.0	7892.2	8155.3	8451.4	8632.5	8566.8	8418.6	8374.8	8380.3
33°	7074.9	7173.6	7415.0	7689.3	7837.2	7820.8	7700.1	7645.3	7650.7
34°	6422.3	6504.6	6685.4	6894.0	7036.5	7031.0	6943.2	6948.7	6965.2
35°	5841.0	5884.8	5972.5	6087.7	6175.5	6224.8	6235.8	6279.6	6334.5
37.5°	4415.1	4431.4	4327.3	4211.9	4190.1	4332.8	4579.5	4793.4	4875.7
40°	3060.3	3022.0	2890.3	2687.4	2627.0	2786.1	3098.7	3400.3	3510.0
42.5°	1903.1	1886.6	1804.4	1650.9	1596.0	1689.2	1925.0	2155.5	2265.1
45°	1135.2	1113.3	1069.4	1009.1	998.1	1036.5	1157.2	1288.8	1349.2
47.5°	652.6	647.3	619.7	597.8	592.3	619.7	674.6	751.4	767.9
50°	356.5	351.1	345.6	345.6	345.6	362.0	389.4	411.3	422.3
52.5°	175.5	181.0	175.5	181.0	186.5	197.4	191.9	213.9	213.9
55°	87.8	82.3	93.3	104.3	104.3	104.3	104.3	104.3	98.8
57.5°	65.8	71.3	60.4	65.8	60.4	60.4	54.9	60.4	65.8



TEST NUMBER: P250203

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBM0WH

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	43.8	38.3	43.8	49.4	54.9	49.4	38.3	43.8	49.4
62.5°	21.9	21.9	21.9	32.8	49.4	38.3	32.8	27.4	27.4
65°	32.8	21.9	27.4	32.8	27.4	27.4	21.9	27.4	21.9
67.5°	16.5	27.4	16.5	11.0	16.5	21.9	16.5	11.0	11.0
70°	0.0	5.5	5.5	16.5	16.5	16.5	16.5	11.0	11.0
72.5°	5.5	5.5	5.5	11.0	5.5	11.0	5.5	5.5	11.0
75°	0.0	0.0	5.5	5.5	0.0	5.5	0.0	0.0	0.0
77.5°	5.5	0.0	5.5	5.5	0.0	0.0	0.0	5.5	0.0
80°	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	5.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)