

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: P249797

Luminaire Tested: **LD8B200D010 ER8B200830 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200830 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18239.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

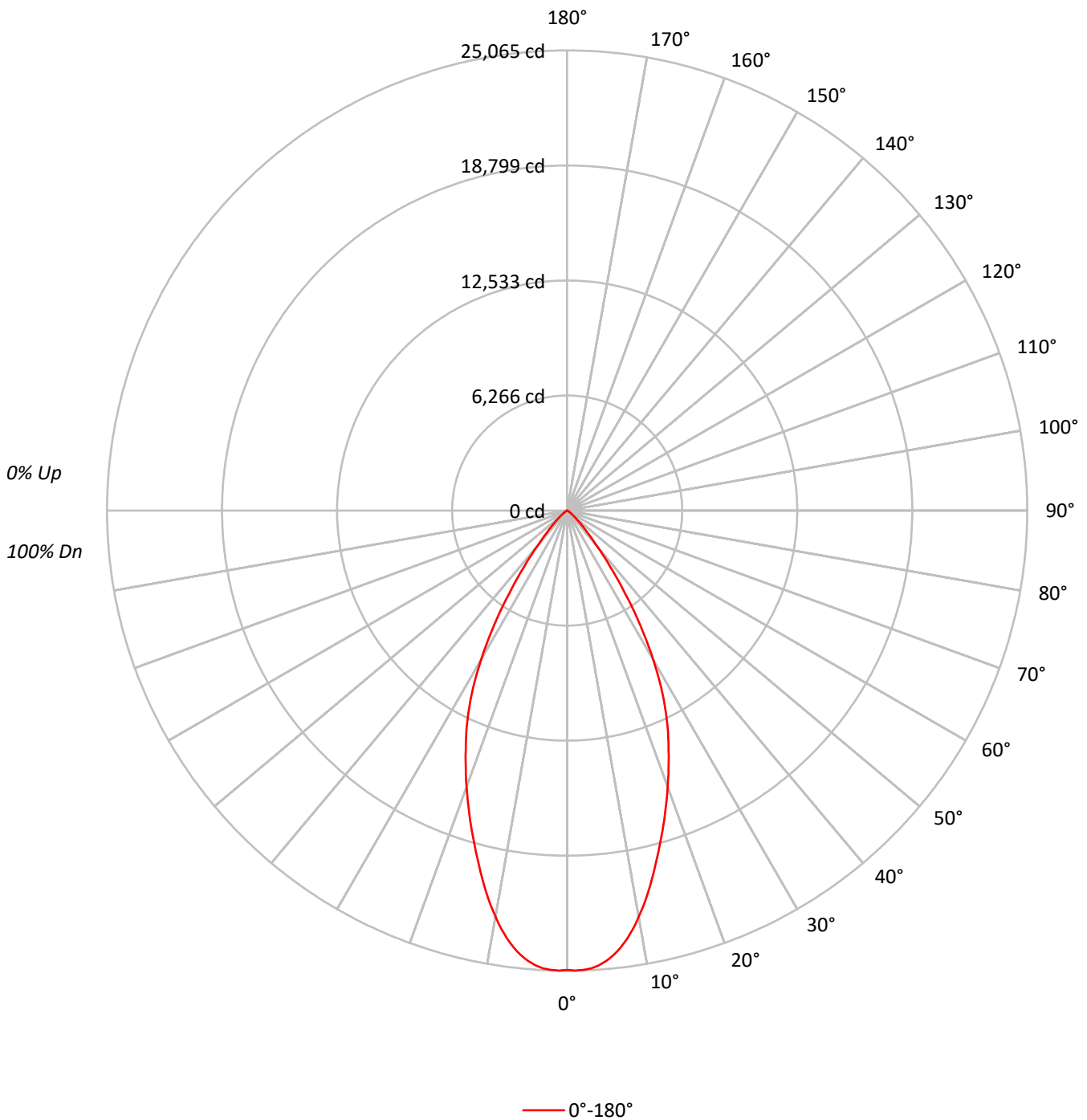
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249797

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBN0H

### Luminous Intensity Polar Plot





TEST NUMBER: P249797

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBNOH

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	771401
5°	761929
10°	703675
15°	613591
20°	525600
25°	439959
30°	334714
35°	207487
40°	102366
45°	48720
50°	23689
55°	11612
60°	7234
65°	4954
70°	2786
75°	2204
80°	2184
85°	2194



TEST NUMBER: P249797

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBNOH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2281.2	12.5
10°-20°	5355.5	29.4
20°-30°	5853.3	32.1
30°-40°	3483.2	19.1
40°-50°	955.5	5.2
50°-60°	216.4	1.2
60°-70°	66.9	0.4
70°-80°	20.3	0.1
80°-90°	6.7	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°	13490.0	74.0
0°-40°	16973.2	93.1
0°-60°	18145.1	99.5
0°-90°	18239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18239.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	25016	
5°	24615	###
15°	19220	5356
25°	12931	5853
35°	5512	3483
45°	1117	955
55°	216	216
65°	68	67
75°	18	20
85°	6	7
90°	0	



TEST NUMBER: P249797

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBNOH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	25016.0
1°	25065.4
2°	25034.5
3°	24972.8
4°	24830.8
5°	24614.8
6°	24337.0
7°	23966.7
8°	23534.6
9°	23034.7
10°	22473.0
11°	21874.3
12°	21232.4
13°	20572.0
14°	19886.9
15°	19220.3
16°	18566.0
17°	17924.1
18°	17282.2
19°	16640.3
20°	16016.9
22.5°	14449.1
25°	12930.8
27.5°	11258.1
30°	9400.3
32.5°	7406.7
35°	5511.8
37.5°	3832.9
40°	2543.0
42.5°	1666.5
45°	1117.2
47.5°	740.7
50°	493.8
52.5°	302.4
55°	216.0
57.5°	154.3
60°	117.3
62.5°	86.4
65°	67.9
67.5°	43.2
70°	30.9
72.5°	24.7
75°	18.5
77.5°	12.3
80°	12.3



TEST NUMBER: P249797

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBNOH

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	6.2
85°	6.2
87.5°	6.2
90°	0.0

(END OF REPORT)