

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: P249786

Luminaire Tested: **LD8B100D010 ER8B100827 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249786  
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: LD8B100D010 ER8B100827 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9190.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

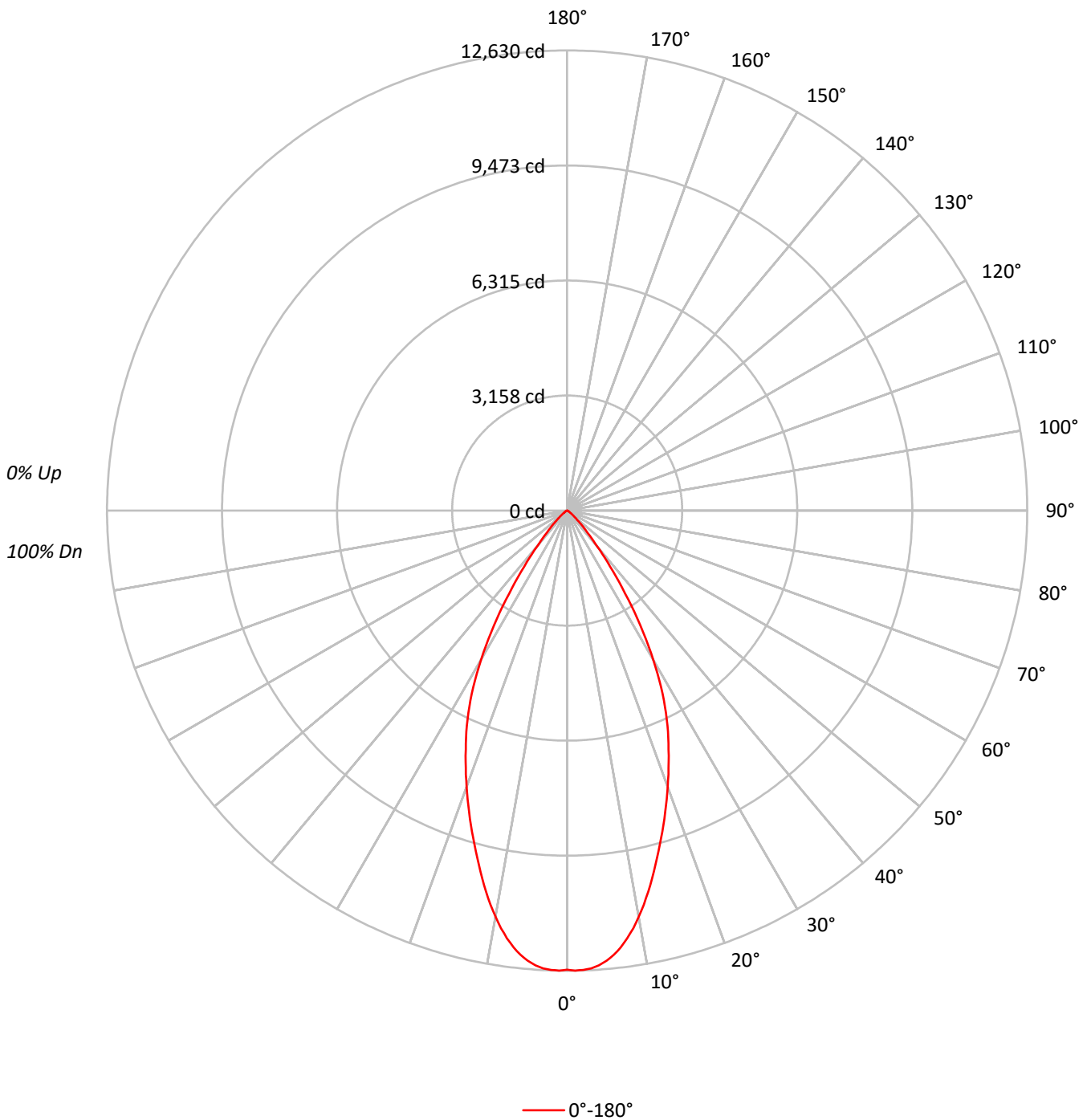
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	388682
5°	383908
10°	354558
15°	309166
20°	264833
25°	221681
30°	168651
35°	104545
40°	51577
45°	24548
50°	11936
55°	5849
60°	3645
65°	2495
70°	1397
75°	1108
80°	1101
85°	1097



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1149.4	12.5
10°-20°	2698.5	29.4
20°-30°	2949.3	32.1
30°-40°	1755.1	19.1
40°-50°	481.4	5.2
50°-60°	109.0	1.2
60°-70°	33.7	0.4
70°-80°	10.2	0.1
80°-90°	3.4	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°	6797.2	74.0
0°-40°	8552.2	93.1
0°-60°	9142.7	99.5
0°-90°	9190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9190.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12605	
5°	12402	###
15°	9684	2698
25°	6515	2949
35°	2777	1755
45°	563	481
55°	109	109
65°	34	34
75°	9	10
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12604.7
1°	12629.6
2°	12614.0
3°	12582.9
4°	12511.4
5°	12402.5
6°	12262.6
7°	12076.0
8°	11858.3
9°	11606.4
10°	11323.4
11°	11021.7
12°	10698.3
13°	10365.5
14°	10020.3
15°	9684.4
16°	9354.8
17°	9031.3
18°	8707.9
19°	8384.5
20°	8070.4
22.5°	7280.4
25°	6515.4
27.5°	5672.6
30°	4736.5
32.5°	3732.0
35°	2777.2
37.5°	1931.3
40°	1281.3
42.5°	839.7
45°	562.9
47.5°	373.2
50°	248.8
52.5°	152.4
55°	108.8
57.5°	77.7
60°	59.1
62.5°	43.5
65°	34.2
67.5°	21.8
70°	15.5
72.5°	12.4
75°	9.3
77.5°	6.2
80°	6.2



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.1
85°	3.1
87.5°	3.1
90°	0.0

(END OF REPORT)