

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: P249961

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9214.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

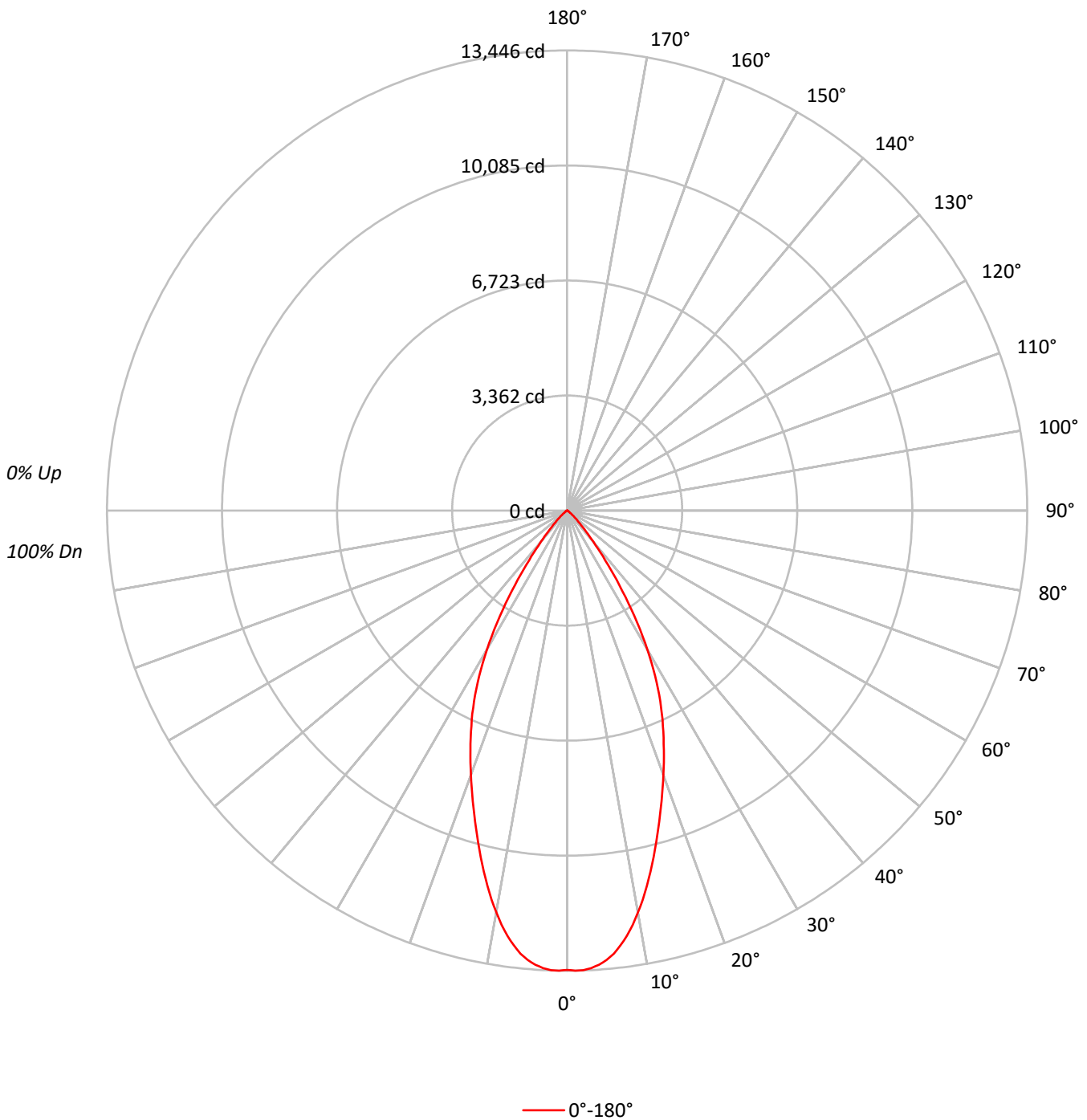
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54

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

	0°
0°	413836
5°	408071
10°	373327
15°	320531
20°	269922
25°	223014
30°	167280
35°	99712
40°	47508
45°	20697
50°	9383
55°	4134
60°	2374
65°	1408
70°	1452
75°	0
80°	568
85°	2264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1218.1	13.2
10°-20°	2794.7	30.3
20°-30°	2969.0	32.2
30°-40°	1694.0	18.4
40°-50°	420.0	4.6
50°-60°	82.6	0.9
60°-70°	24.9	0.3
70°-80°	5.9	0.1
80°-90°	4.8	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°	6981.8	75.8
0°-40°	8675.8	94.2
0°-60°	9178.4	99.6
0°-90°	9214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9214.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13420	
5°	13183	###
15°	10040	2795
25°	6555	2969
35°	2649	1694
45°	475	420
55°	77	83
65°	19	25
75°	0	6
85°	6	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13420.4
1°	13446.1
2°	13436.5
3°	13388.4
4°	13305.0
5°	13183.1
6°	13022.9
7°	12801.5
8°	12548.1
9°	12250.0
10°	11922.8
11°	11576.6
12°	11204.5
13°	10826.1
14°	10438.1
15°	10040.4
16°	9665.3
17°	9286.9
18°	8930.9
19°	8568.6
20°	8225.5
22.5°	7375.6
25°	6554.6
27.5°	5672.9
30°	4698.0
32.5°	3652.5
35°	2648.8
37.5°	1824.6
40°	1180.2
42.5°	747.3
45°	474.6
47.5°	311.1
50°	195.6
52.5°	118.7
55°	76.9
57.5°	61.0
60°	38.5
62.5°	35.2
65°	19.3
67.5°	19.3
70°	16.1
72.5°	9.6
75°	0.0
77.5°	3.2
80°	3.2



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	6.4
85°	6.4
87.5°	3.2
90°	0.0

(END OF REPORT)