

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: P246594

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B109727 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 805.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

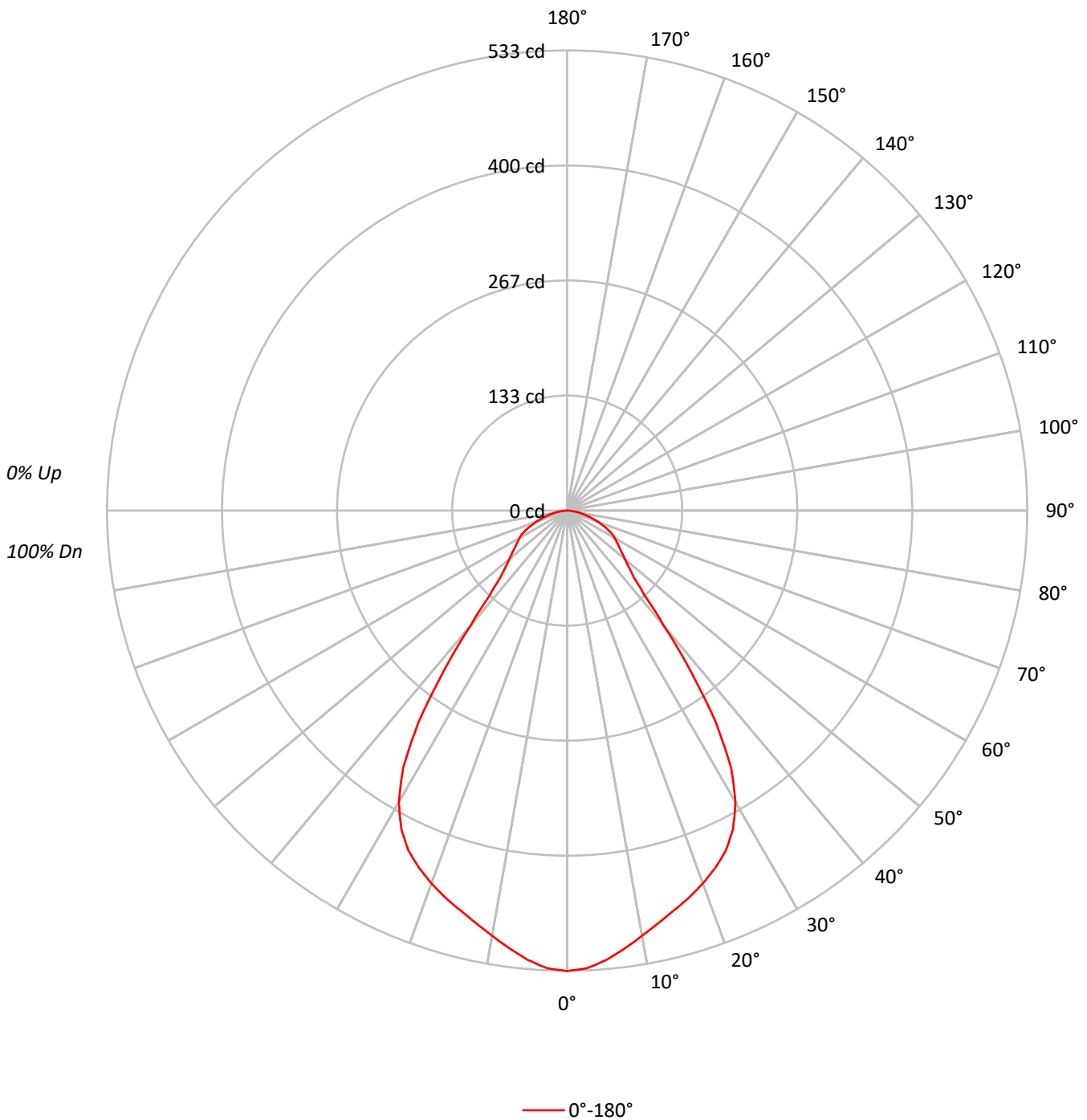
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°
0°	16448
5°	16170
10°	15662
15°	15298
20°	15082
25°	14787
30°	13883
35°	11331
40°	7020
45°	4753
50°	4188
55°	3951
60°	3922
65°	3801
70°	3408
75°	2955
80°	2486
85°	1981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	6.1
10°-20°	135.4	16.8
20°-30°	198.5	24.7
30°-40°	181.5	22.5
40°-50°	89.8	11.2
50°-60°	66.4	8.3
60°-70°	51.1	6.3
70°-80°	26.6	3.3
80°-90°	6.6	0.8
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°	383.0	47.6
0°-40°	564.5	70.1
0°-60°	720.7	89.5
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	533	
5°	522	49
15°	479	135
25°	435	199
35°	301	181
45°	109	90
55°	74	66
65°	52	51
75°	25	27
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	533.4
2.5°	530.6
5°	522.4
7.5°	511.4
10°	500.2
12.5°	489.2
15°	479.2
17.5°	469.8
20°	459.6
22.5°	448.1
25°	434.6
27.5°	415.9
30°	389.9
32.5°	353.4
35°	301.0
37.5°	236.2
40°	174.4
42.5°	132.0
45°	109.0
47.5°	96.5
50°	87.3
52.5°	79.9
55°	73.5
57.5°	68.2
60°	63.6
62.5°	58.7
65°	52.1
67.5°	44.9
70°	37.8
72.5°	31.1
75°	24.8
77.5°	19.1
80°	14.0
82.5°	9.7
85°	5.6
87.5°	2.0
90°	0.0

(END OF REPORT)