

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: P243858

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B109727 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 836.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

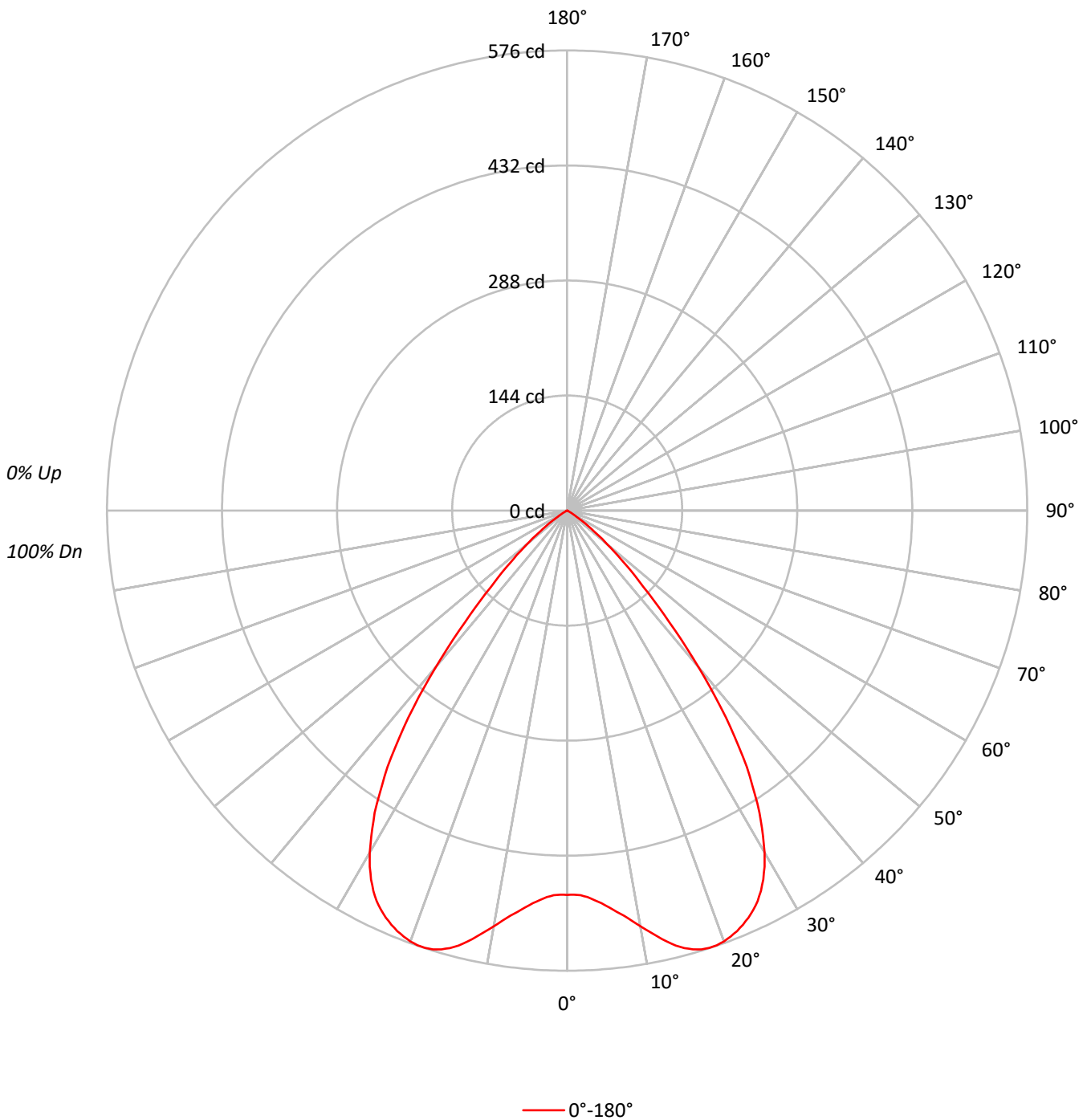
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

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

	0°
0°	14832
5°	15273
10°	16545
15°	18101
20°	18833
25°	18764
30°	17600
35°	14757
40°	10277
45°	5883
50°	3161
55°	1301
60°	327
65°	80
70°	45
75°	24
80°	36
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	5.8
10°-20°	159.8	19.1
20°-30°	251.5	30.1
30°-40°	239.2	28.6
40°-50°	110.3	13.2
50°-60°	25.0	3.0
60°-70°	1.7	0.2
70°-80°	0.3	0.0
80°-90°	0.0	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°	459.5	55.0
0°-40°	698.7	83.6
0°-60°	834.0	99.8
0°-90°	836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	481	
5°	493	48
15°	567	160
25°	552	251
35°	392	239
45°	135	110
55°	24	25
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	481.0
1°	480.8
2°	481.7
3°	484.4
4°	488.6
5°	493.4
6°	499.3
7°	505.7
8°	512.3
9°	520.1
10°	528.4
11°	536.6
12°	545.3
13°	553.5
14°	561.1
15°	567.0
16°	571.4
17°	574.3
18°	575.7
19°	575.5
20°	573.9
21°	571.1
22°	567.7
23°	563.1
24°	557.9
25°	551.5
26°	543.9
27°	534.3
28°	522.9
29°	509.6
30°	494.3
32.5°	448.3
35°	392.0
37.5°	326.6
40°	255.3
42.5°	188.7
45°	134.9
47.5°	95.6
50°	65.9
52.5°	42.1
55°	24.2
57.5°	12.1
60°	5.3
62.5°	2.1
65°	1.1



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.7
70°	0.5
72.5°	0.5
75°	0.2
77.5°	0.2
80°	0.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)