

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: P244290

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B109727 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 789.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

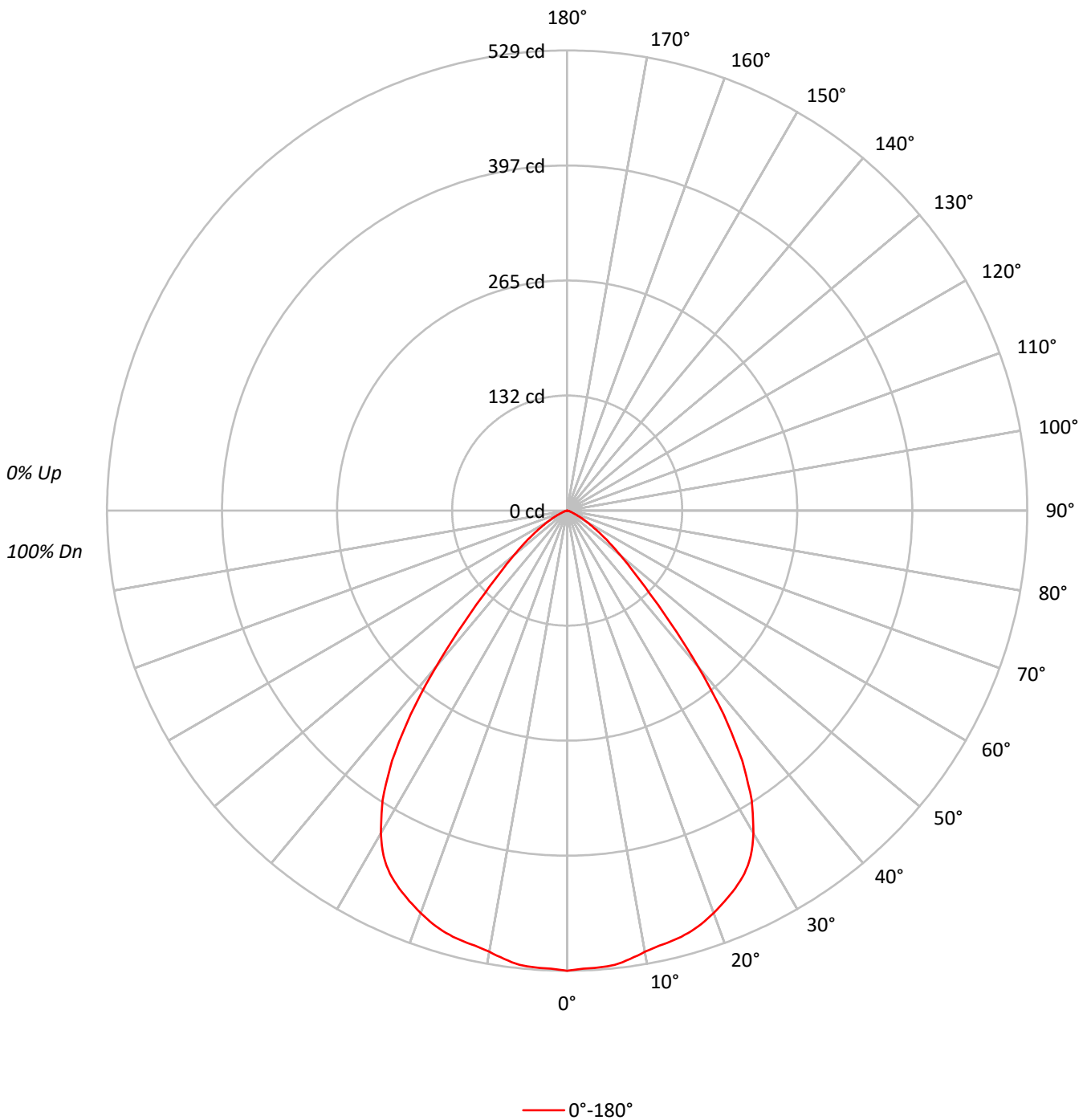
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65		73	68	64		71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59		68	62	58		66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49		58	53	49		57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46		55	49	45		54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42		51	46	42		50	45	42	40

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

	0°
0°	16315
5°	16279
10°	16129
15°	16192
20°	16155
25°	15998
30°	15250
35°	13202
40°	9419
45°	5787
50°	3819
55°	2527
60°	1616
65°	883
70°	433
75°	214
80°	124
85°	71



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.9	6.3
10°-20°	143.0	18.1
20°-30°	215.3	27.3
30°-40°	213.1	27.0
40°-50°	108.3	13.7
50°-60°	43.6	5.5
60°-70°	13.2	1.7
70°-80°	2.3	0.3
80°-90°	0.3	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°	408.2	51.7
0°-40°	621.3	78.7
0°-60°	773.2	98.0
0°-90°	789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	529	
5°	526	50
15°	507	143
25°	470	215
35°	351	213
45°	133	108
55°	47	44
65°	12	13
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	529.1
1°	527.9
2°	527.0
3°	526.8
4°	526.5
5°	525.9
6°	525.0
7°	523.1
8°	520.4
9°	517.9
10°	515.1
11°	512.9
12°	511.3
13°	510.1
14°	508.8
15°	507.2
16°	505.1
17°	502.6
18°	499.6
19°	496.2
20°	492.3
21°	488.2
22°	484.1
23°	479.8
24°	475.2
25°	470.2
26°	464.7
27°	457.7
28°	449.5
29°	439.7
30°	428.3
32.5°	395.0
35°	350.7
37.5°	295.5
40°	234.0
42.5°	176.7
45°	132.7
47.5°	101.5
50°	79.6
52.5°	61.8
55°	47.0
57.5°	34.9
60°	26.2
62.5°	18.7
65°	12.1



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	7.5
70°	4.8
72.5°	3.0
75°	1.8
77.5°	1.1
80°	0.7
82.5°	0.5
85°	0.2
87.5°	0.0
90°	0.0

(END OF REPORT)