

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: P247295

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90835 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8966.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

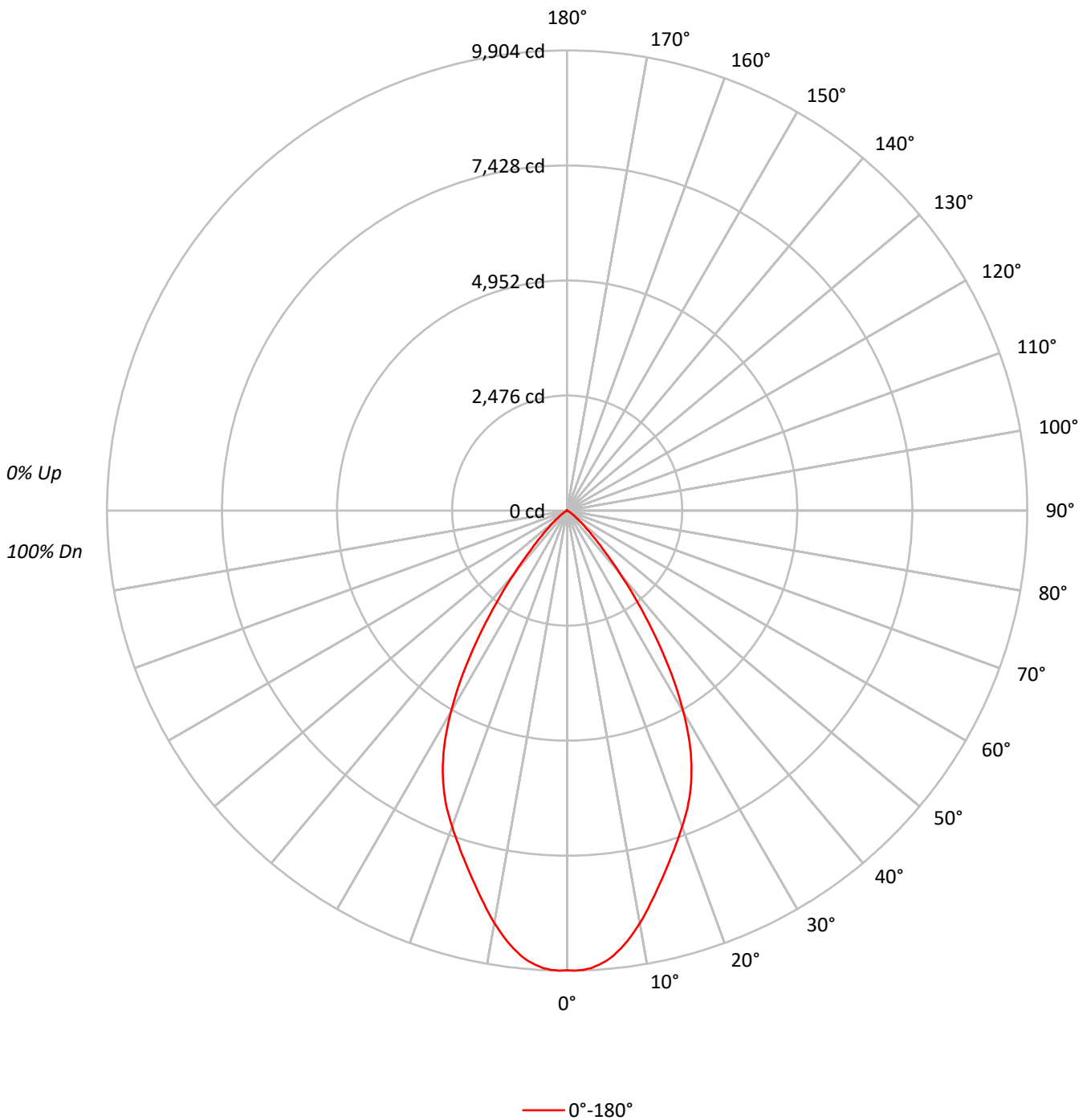
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77		84	80	77		82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72		79	74	71		77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66		74	69	66		73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58		66	61	57		65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54		62	57	54		61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51		59	54	51		58	54	50	49

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

	0°
0°	304983
5°	301053
10°	282240
15°	258090
20°	237599
25°	215294
30°	178265
35°	125020
40°	71145
45°	34918
50°	17222
55°	7812
60°	3707
65°	2007
70°	207
75°	274
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.1	10.1
10°-20°	2269.5	25.3
20°-30°	2864.9	32.0
30°-40°	2060.9	23.0
40°-50°	682.1	7.6
50°-60°	148.5	1.7
60°-70°	30.6	0.3
70°-80°	3.0	0.0
80°-90°	1.5	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°	6039.4	67.4
0°-40°	8100.3	90.3
0°-60°	8930.9	99.6
0°-90°	8966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8966.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9890	
5°	9726	905
15°	8084	2269
25°	6328	2865
35°	3321	2061
45°	801	682
55°	145	149
65°	28	31
75°	2	3
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9890.4
1°	9904.3
2°	9892.7
3°	9860.1
4°	9799.5
5°	9725.8
6°	9624.7
7°	9492.9
8°	9347.6
9°	9188.6
10°	9013.8
11°	8835.3
12°	8641.0
13°	8453.7
14°	8265.3
15°	8084.5
16°	7906.6
17°	7736.1
18°	7566.9
19°	7404.3
20°	7240.5
21°	7072.8
22°	6909.0
23°	6730.8
24°	6538.7
25°	6327.7
26°	6106.1
27°	5859.3
28°	5598.4
29°	5308.6
30°	5006.5
31°	4688.9
32°	4354.6
33°	4003.9
34°	3660.8
35°	3321.1
37.5°	2494.1
40°	1767.4
42.5°	1197.3
45°	800.7
47.5°	537.2
50°	359.0
52.5°	216.7
55°	145.3
57.5°	101.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	60.1
62.5°	41.1
65°	27.5
67.5°	24.6
70°	2.3
72.5°	5.7
75°	2.3
77.5°	2.3
80°	0.0
82.5°	5.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)