

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: P247319

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247319  
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 EC8B90940 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7986.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 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

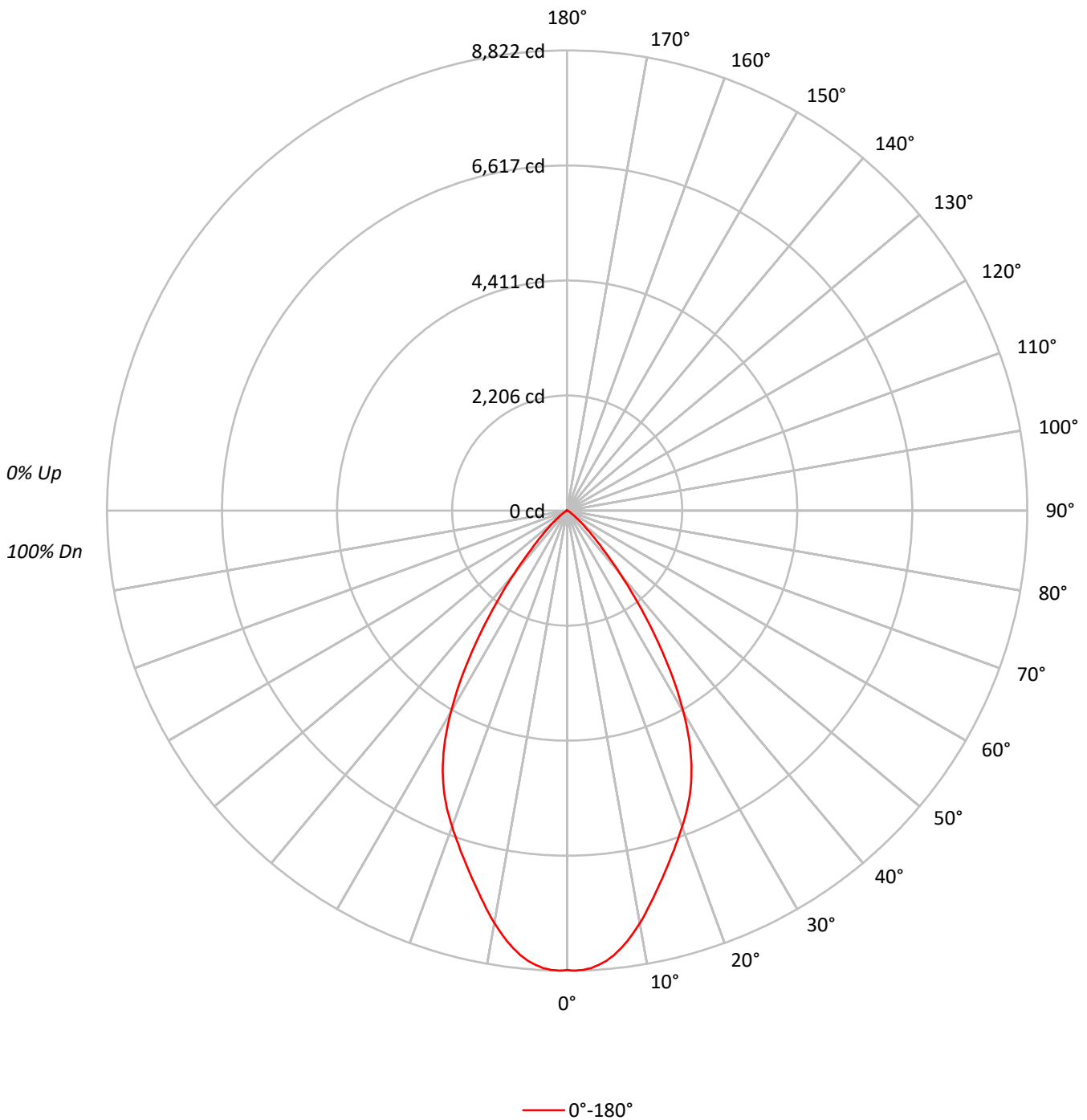
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	271649
5°	268149
10°	251392
15°	229882
20°	211629
25°	191760
30°	158781
35°	111355
40°	63368
45°	31098
50°	15337
55°	6962
60°	3299
65°	1788
70°	180
75°	238
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	806.2	10.1
10°-20°	2021.4	25.3
20°-30°	2551.7	32.0
30°-40°	1835.6	23.0
40°-50°	607.5	7.6
50°-60°	132.3	1.7
60°-70°	27.2	0.3
70°-80°	2.6	0.0
80°-90°	1.4	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°	5379.3	67.4
0°-40°	7214.9	90.3
0°-60°	7954.7	99.6
0°-90°	7986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7986.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8809	
5°	8663	806
15°	7201	2021
25°	5636	2552
35°	2958	1836
45°	713	608
55°	130	132
65°	24	27
75°	2	3
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8809.4
1°	8821.7
2°	8811.4
3°	8782.4
4°	8728.4
5°	8662.8
6°	8572.7
7°	8455.3
8°	8325.9
9°	8184.3
10°	8028.6
11°	7869.6
12°	7696.5
13°	7529.7
14°	7361.9
15°	7200.9
16°	7042.4
17°	6890.5
18°	6739.8
19°	6595.0
20°	6449.1
21°	6299.7
22°	6153.9
23°	5995.1
24°	5824.0
25°	5636.0
26°	5438.7
27°	5218.9
28°	4986.5
29°	4728.3
30°	4459.3
31°	4176.4
32°	3878.7
33°	3566.2
34°	3260.6
35°	2958.1
37.5°	2221.5
40°	1574.2
42.5°	1066.4
45°	713.1
47.5°	478.5
50°	319.7
52.5°	193.0
55°	129.5
57.5°	90.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	53.5
62.5°	36.6
65°	24.5
67.5°	22.0
70°	2.0
72.5°	5.0
75°	2.0
77.5°	2.0
80°	0.0
82.5°	5.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)