

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: P247331

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247331  
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 EC8B909730 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6605.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

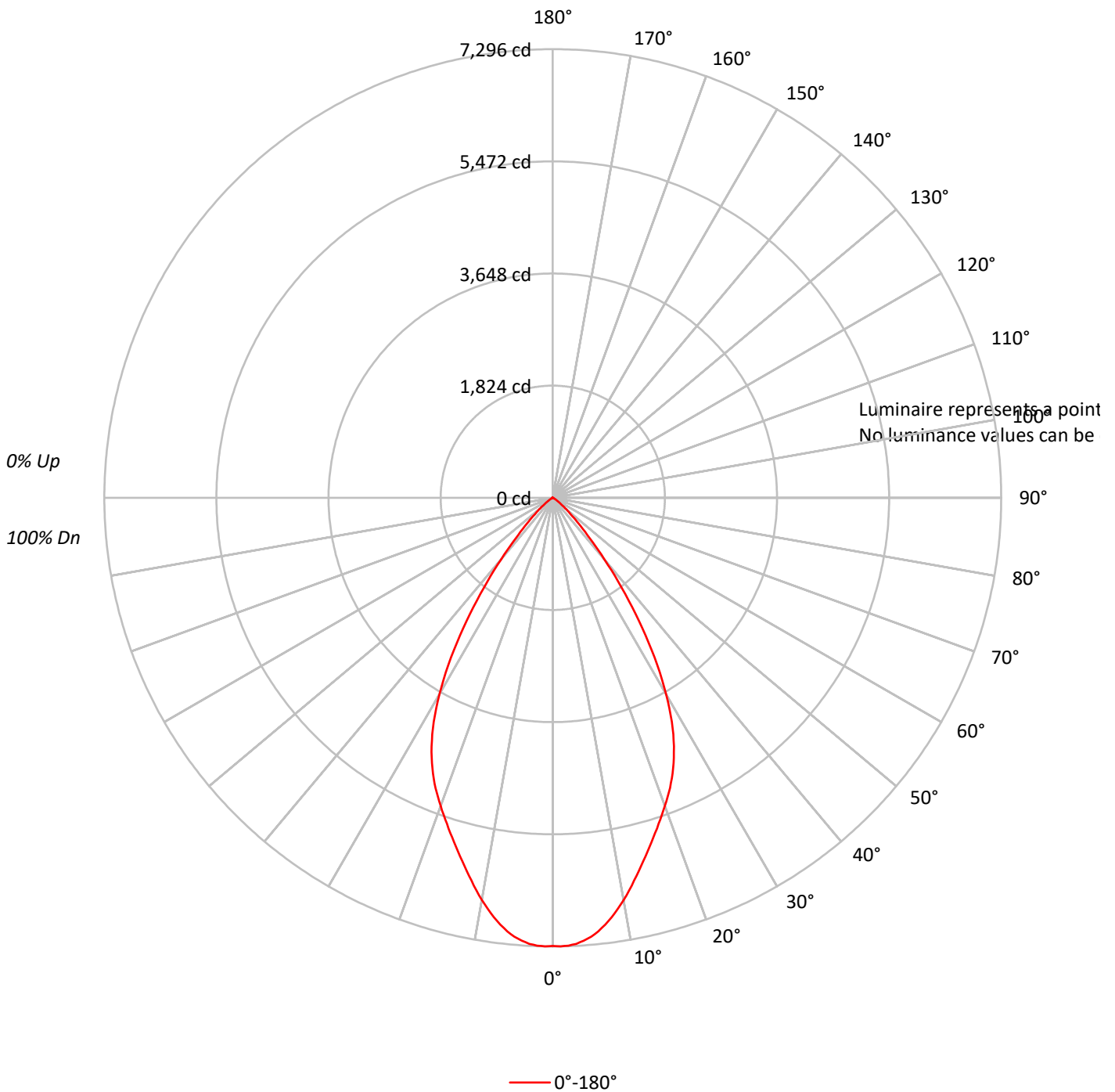
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	65	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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	666.7	10.1
10°-20°	1671.8	25.3
20°-30°	2110.5	32.0
30°-40°	1518.2	23.0
40°-50°	502.5	7.6
50°-60°	109.4	1.7
60°-70°	22.5	0.3
70°-80°	2.2	0.0
80°-90°	1.1	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°	4449.1	67.4
0°-40°	5967.2	90.3
0°-60°	6579.1	99.6
0°-90°	6605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7286	
5°	7165	667
15°	5956	1672
25°	4661	2110
35°	2446	1518
45°	590	502
55°	107	109
65°	20	23
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7286.0
1°	7296.2
2°	7287.7
3°	7263.7
4°	7219.0
5°	7164.7
6°	7090.2
7°	6993.2
8°	6886.1
9°	6769.0
10°	6640.2
11°	6508.7
12°	6365.6
13°	6227.6
14°	6088.8
15°	5955.7
16°	5824.6
17°	5698.9
18°	5574.3
19°	5454.5
20°	5333.9
21°	5210.3
22°	5089.7
23°	4958.4
24°	4816.9
25°	4661.4
26°	4498.2
27°	4316.4
28°	4124.2
29°	3910.7
30°	3688.2
31°	3454.2
32°	3207.9
33°	2949.5
34°	2696.8
35°	2446.5
37.5°	1837.3
40°	1302.0
42.5°	882.0
45°	589.8
47.5°	395.7
50°	264.4
52.5°	159.7
55°	107.1
57.5°	74.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	44.2
62.5°	30.3
65°	20.2
67.5°	18.2
70°	1.7
72.5°	4.2
75°	1.7
77.5°	1.7
80°	0.0
82.5°	4.2
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)