

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P436657

Luminaire Tested: **LSR1B08209027D010TExxMW**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-014-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR1B08209027D010TExxMW  
Description: PORTFOLIO 1INCH CYLINDER, 20 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 996.0 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

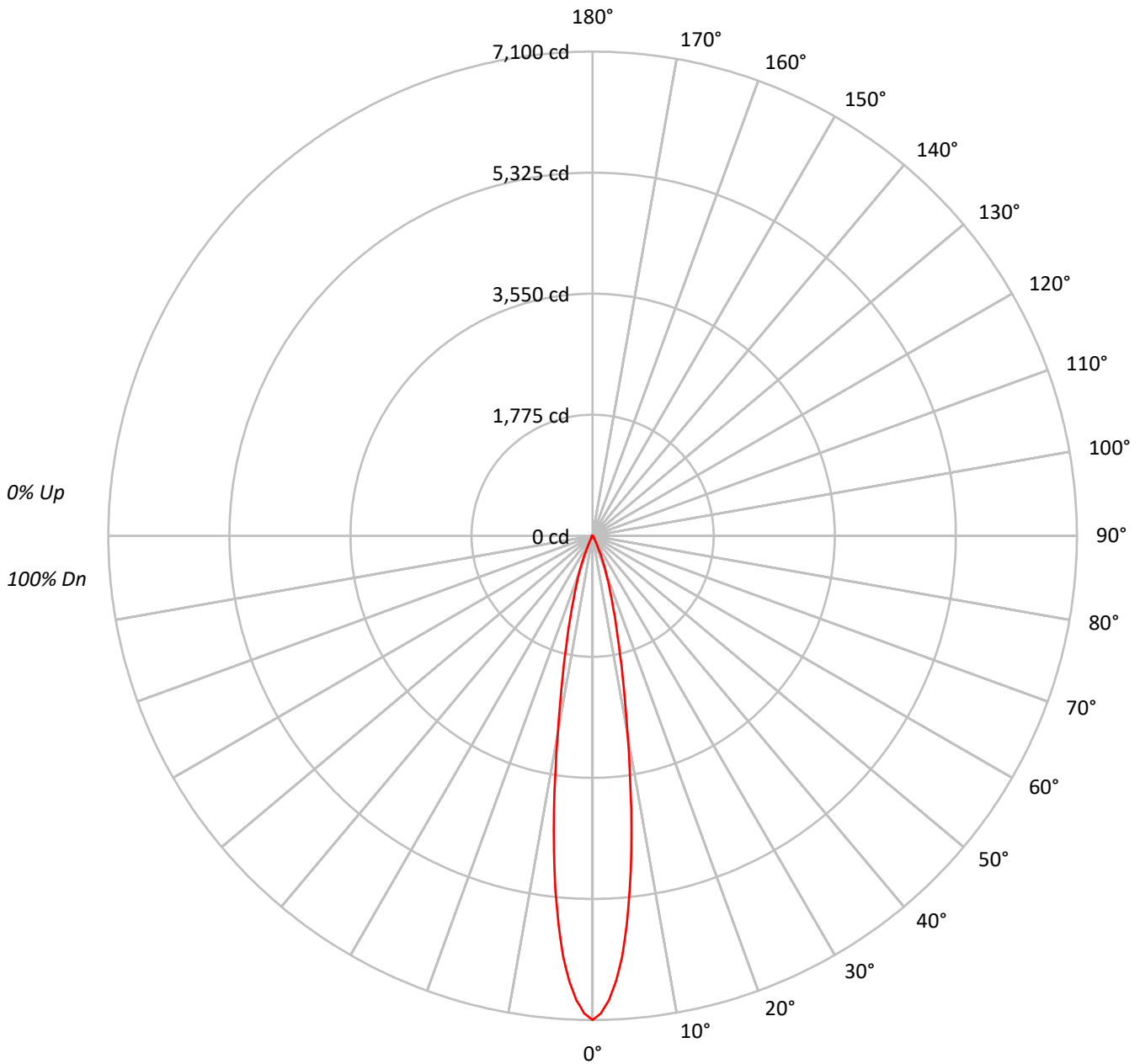
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	99	99	98	96																											
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93																											
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90																											
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	93	90	89	87																											
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	90	88	86	85																											
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83																											
7	96	90	86	83	95	90	86	83	89	85	83	88	85	82	87	84	82	81																											
8	94	88	84	81	93	87	84	81	87	83	81	86	83	81	85	82	80	79																											
9	92	86	82	79	91	85	82	79	85	81	79	84	81	79	83	81	79	78																											
10	90	84	80	78	89	83	80	77	83	80	77	82	79	77	82	79	77	76																											

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

	0°
0°	14013134
5°	11348818
10°	5917373
15°	2629344
20°	1188713
25°	381073
30°	107106
35°	72277
40°	56678
45°	53029
50°	55265
55°	55052
60°	59206
65°	56038
70°	57703
75°	61001
80°	56826
85°	67932



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.9	45.5
10°-20°	374.5	37.6
20°-30°	96.8	9.7
30°-40°	19.4	1.9
40°-50°	15.1	1.5
50°-60°	14.4	1.4
60°-70°	12.0	1.2
70°-80°	8.0	0.8
80°-90°	2.9	0.3
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°	924.2	92.8
0°-40°	943.6	94.7
0°-60°	973.1	97.7
0°-90°	996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7100	
5°	5729	453
15°	1287	374
25°	175	97
35°	30	19
45°	19	15
55°	16	14
65°	12	12
75°	8	8
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7100.5
1°	7006.5
2°	6813.5
3°	6545.5
4°	6187.5
5°	5728.6
6°	5216.6
7°	4663.7
8°	4062.7
9°	3470.7
10°	2952.8
11°	2501.8
12°	2119.8
13°	1792.9
14°	1517.9
15°	1286.9
16°	1087.9
17°	924.9
18°	784.9
19°	666.0
20°	566.0
21°	477.0
22°	398.0
23°	319.0
24°	241.0
25°	175.0
26°	125.0
27°	91.0
28°	69.0
29°	56.0
30°	47.0
32.5°	36.0
35°	30.0
37.5°	25.0
40°	22.0
42.5°	21.0
45°	19.0
47.5°	18.0
50°	18.0
52.5°	17.0
55°	16.0
57.5°	15.0
60°	15.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	11.0
70°	10.0
72.5°	9.0
75°	8.0
77.5°	6.0
80°	5.0
82.5°	4.0
85°	3.0
87.5°	1.0
90°	0.0



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— 0°-180°







62.5°		13.0
65°		12.0



(END OF REPORT)