

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: P436684

Luminaire Tested: **LSR1B08209040D010TExxMW**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436684  
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: LSR1B08209040D010TExxMW  
Description: PORTFOLIO 1INCH CYLINDER, 20 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1080.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 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

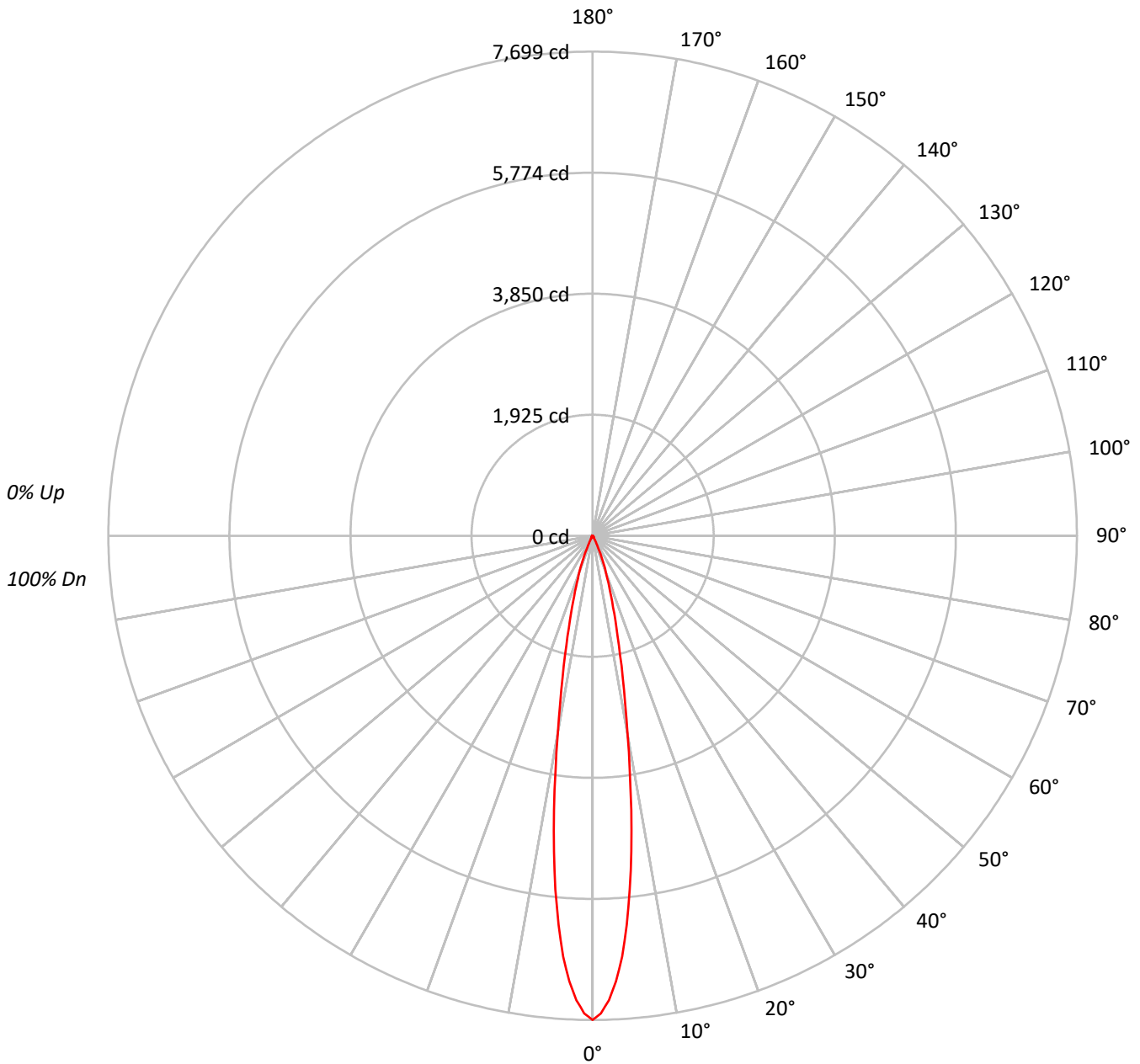
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	80	77	83	80	77	82	79	77	82	79	77	76																											

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

	0°
0°	15194891
5°	12305878
10°	6416365
15°	2851027
20°	1288892
25°	413084
30°	116221
35°	78301
40°	61573
45°	57495
50°	59871
55°	59525
60°	64337
65°	60707
70°	62319
75°	66339
80°	61372
85°	74725



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.1	45.5
10°-20°	406.0	37.6
20°-30°	105.0	9.7
30°-40°	21.1	1.9
40°-50°	16.3	1.5
50°-60°	15.6	1.4
60°-70°	13.0	1.2
70°-80°	8.7	0.8
80°-90°	3.1	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°	1002.1	92.8
0°-40°	1023.2	94.7
0°-60°	1055.1	97.7
0°-90°	1080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7699	
5°	6212	491
15°	1395	406
25°	190	105
35°	32	21
45°	21	16
55°	17	16
65°	13	13
75°	9	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7699.3
1°	7597.4
2°	7388.1
3°	7097.5
4°	6709.4
5°	6211.7
6°	5656.6
7°	5057.0
8°	4405.3
9°	3763.5
10°	3201.8
11°	2712.8
12°	2298.6
13°	1944.1
14°	1645.9
15°	1395.4
16°	1179.7
17°	1002.9
18°	851.1
19°	722.1
20°	613.7
21°	517.2
22°	431.5
23°	345.9
24°	261.3
25°	189.7
26°	135.5
27°	98.7
28°	74.8
29°	60.7
30°	51.0
32.5°	39.0
35°	32.5
37.5°	27.1
40°	23.9
42.5°	22.8
45°	20.6
47.5°	19.5
50°	19.5
52.5°	18.4
55°	17.3
57.5°	16.3
60°	16.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	11.9
70°	10.8
72.5°	9.8
75°	8.7
77.5°	6.5
80°	5.4
82.5°	4.3
85°	3.3
87.5°	1.1
90°	0.0



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— 0°-180°







62.5°		<i>14.1</i>
65°		<i>13.0</i>



(END OF REPORT)