

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: P436687

Luminaire Tested: **LSR1B08359040D010TExxMW**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-014-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR1B08359040D010TExxMW  
Description: PORTFOLIO 1INCH CYLINDER, 35 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1069.2 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

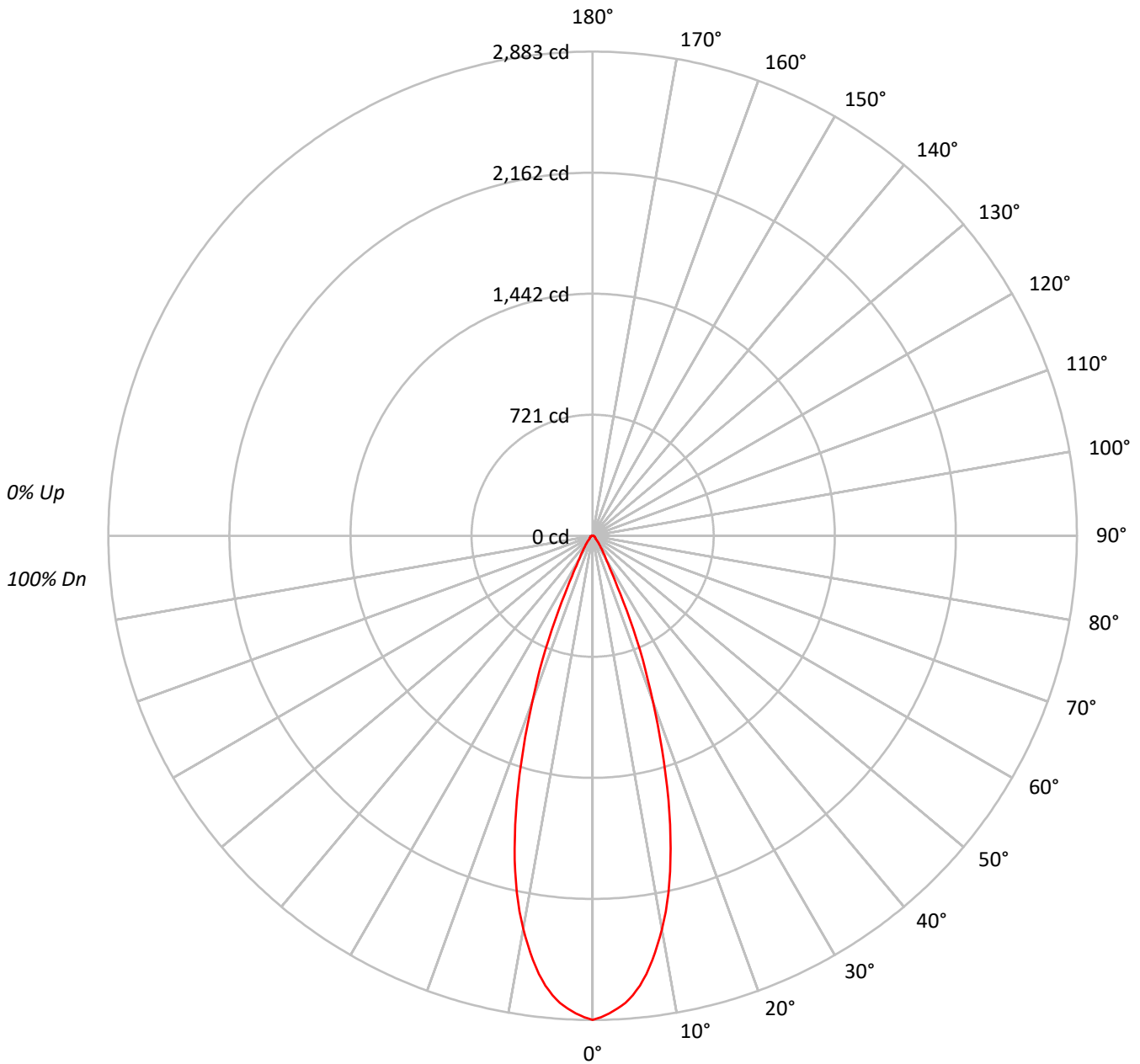
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90																			
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86																			
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	82																			
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	88	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69																			
9	85	77	72	69	84	76	72	69	76	71	68	75	71	68	74	71	68	67																			
10	82	74	69	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65																			

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

	0°
0°	5689524
5°	5440443
10°	4764479
15°	3636622
20°	2200379
25°	942449
30°	363249
35°	209123
40°	131390
45°	81777
50°	59871
55°	63310
60°	64337
65°	65844
70°	68666
75°	66339
80°	61372
85°	74725



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.3	23.4
10°-20°	477.1	44.6
20°-30°	217.7	20.4
30°-40°	57.2	5.3
40°-50°	24.3	2.3
50°-60°	16.4	1.5
60°-70°	14.0	1.3
70°-80°	9.2	0.9
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°	945.1	88.4
0°-40°	1002.2	93.7
0°-60°	1043.0	97.5
0°-90°	1069.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2883	
5°	2746	250
15°	1780	477
25°	433	218
35°	87	57
45°	29	24
55°	18	16
65°	14	14
75°	9	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2882.9
1°	2867.7
2°	2846.0
3°	2820.0
4°	2788.5
5°	2746.2
6°	2693.1
7°	2629.1
8°	2551.0
9°	2466.4
10°	2377.5
11°	2279.9
12°	2171.4
13°	2051.0
14°	1919.8
15°	1779.9
16°	1636.7
17°	1487.0
18°	1337.3
19°	1189.8
20°	1047.7
21°	917.6
22°	797.2
23°	672.5
24°	545.6
25°	432.8
26°	340.6
27°	271.2
28°	222.3
29°	186.6
30°	159.4
32.5°	115.0
35°	86.8
37.5°	65.1
40°	51.0
42.5°	39.0
45°	29.3
47.5°	23.9
50°	19.5
52.5°	19.5
55°	18.4
57.5°	17.4
60°	16.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	13.0
70°	11.9
72.5°	9.8
75°	8.7
77.5°	7.6
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°		15.2
65°		14.1



(END OF REPORT)