

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: P436671

Luminaire Tested: **LSR1B08509030D010TExxMB**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-014-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR1B08509030D010TExxMB  
Description: PORTFOLIO 1INCH CYLINDER, 50 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 926.5 lumens  
Efficiency: N/A  
Efficacy: 56.2 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.9  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

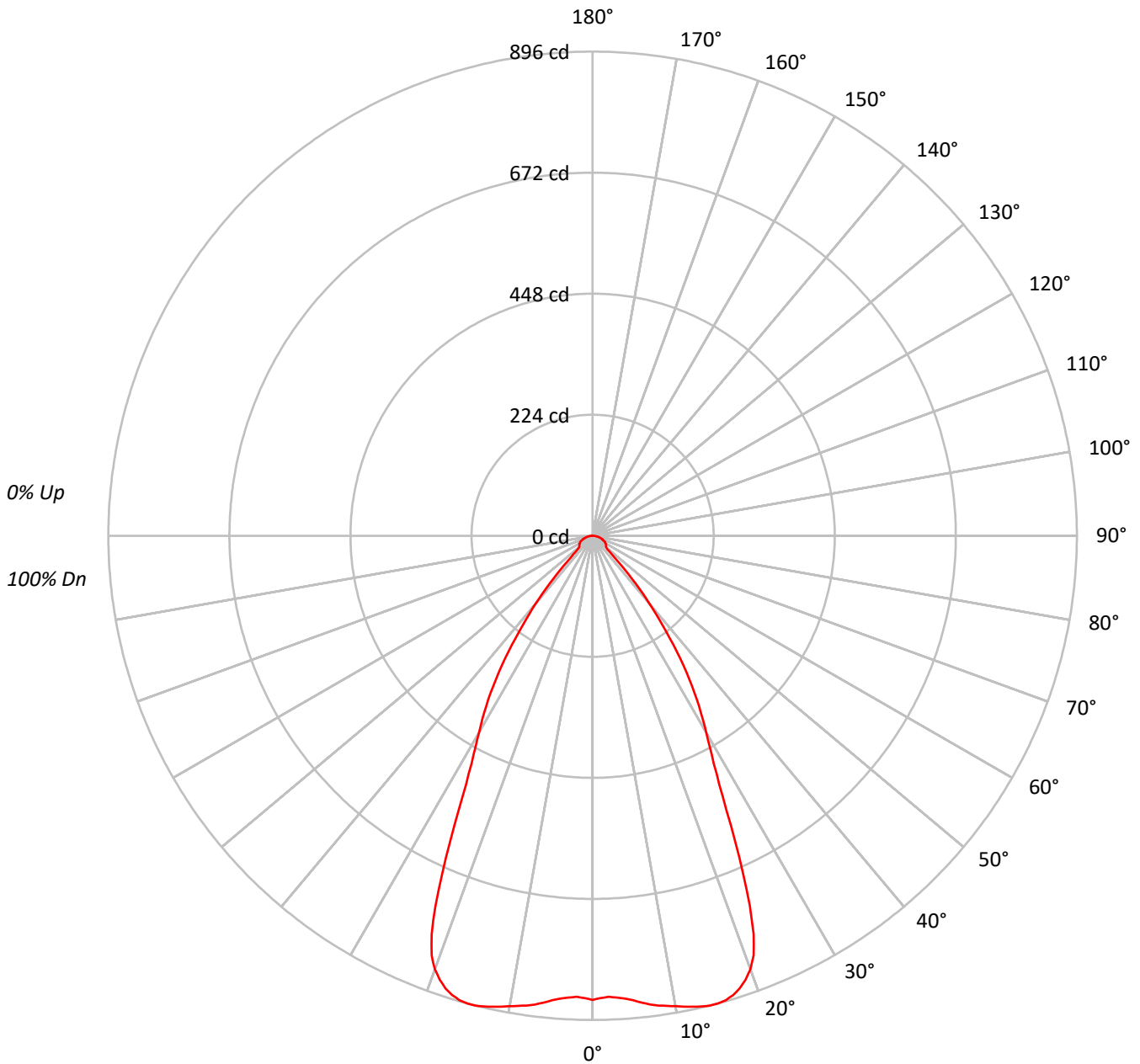
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66	66	66	66
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

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

	0°
0°	1694878
5°	1709276
10°	1771324
15°	1830672
20°	1793150
25°	1357710
30°	957801
35°	707356
40°	419675
45°	159925
50°	98863
55°	103911
60°	107361
65°	112542
70°	110212
75°	107515
80°	103423
85°	90575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	9.0
10°-20°	251.0	27.1
20°-30°	285.6	30.8
30°-40°	180.0	19.4
40°-50°	56.6	6.1
50°-60°	26.9	2.9
60°-70°	23.4	2.5
70°-80°	15.1	1.6
80°-90°	4.8	0.5
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°	619.8	66.9
0°-40°	799.7	86.3
0°-60°	883.3	95.3
0°-90°	926.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	859	
5°	863	83
15°	896	251
25°	624	286
35°	294	180
45°	57	57
55°	30	27
65°	24	23
75°	14	15
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	858.8
1°	855.8
2°	853.8
3°	855.8
4°	858.8
5°	862.8
6°	868.8
7°	873.9
8°	877.9
9°	880.9
10°	883.9
11°	887.9
12°	891.0
13°	894.0
14°	896.0
15°	896.0
16°	894.0
17°	888.9
18°	880.9
19°	868.8
20°	853.8
21°	831.6
22°	795.4
23°	744.1
24°	684.8
25°	623.5
26°	565.1
27°	515.9
28°	477.7
29°	446.5
30°	420.3
32.5°	359.0
35°	293.6
37.5°	222.2
40°	162.9
42.5°	107.6
45°	57.3
47.5°	37.2
50°	32.2
52.5°	31.2
55°	30.2
57.5°	29.2
60°	27.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	21.1
70°	19.1
72.5°	17.1
75°	14.1
77.5°	12.1
80°	9.1
82.5°	7.0
85°	4.0
87.5°	2.0
90°	0.0



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— 0°-180°







62.5°		26.1
65°		24.1



(END OF REPORT)