

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: P436680

Luminaire Tested: **LSR1B08509035D010TExxMB**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436680  
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: LSR1B08509035D010TExxMB  
Description: PORTFOLIO 1INCH CYLINDER, 50 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 963.5 lumens  
Efficiency: N/A  
Efficacy: 58.4 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

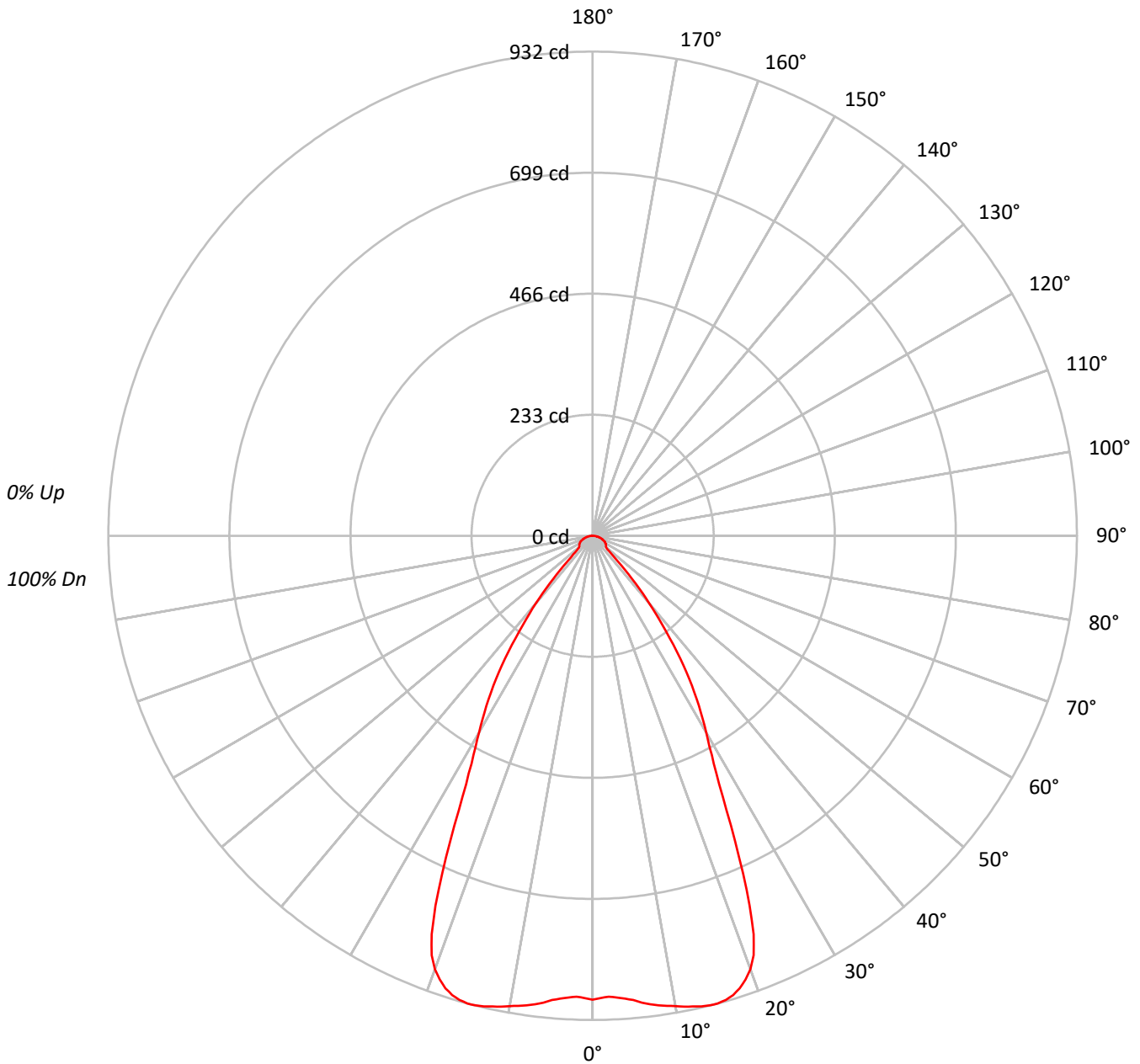
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

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

	0°
0°	1762570
5°	1777425
10°	1842065
15°	1903817
20°	1864557
25°	1411932
30°	996085
35°	735785
40°	436421
45°	166344
50°	102855
55°	108040
60°	111308
65°	117212
70°	114828
75°	111328
80°	106833
85°	95104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	9.0
10°-20°	261.0	27.1
20°-30°	297.0	30.8
30°-40°	187.2	19.4
40°-50°	58.9	6.1
50°-60°	28.0	2.9
60°-70°	24.3	2.5
70°-80°	15.7	1.6
80°-90°	5.0	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°	644.5	66.9
0°-40°	831.7	86.3
0°-60°	918.5	95.3
0°-90°	963.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	893	
5°	897	87
15°	932	261
25°	648	297
35°	305	187
45°	60	59
55°	31	28
65°	25	24
75°	15	16
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	893.1
1°	889.9
2°	887.8
3°	889.9
4°	893.1
5°	897.2
6°	903.5
7°	908.7
8°	912.9
9°	916.1
10°	919.2
11°	923.4
12°	926.5
13°	929.7
14°	931.8
15°	931.8
16°	929.7
17°	924.4
18°	916.1
19°	903.5
20°	887.8
21°	864.8
22°	827.2
23°	773.8
24°	712.1
25°	648.4
26°	587.7
27°	536.5
28°	496.7
29°	464.3
30°	437.1
32.5°	373.3
35°	305.4
37.5°	231.1
40°	169.4
42.5°	111.9
45°	59.6
47.5°	38.7
50°	33.5
52.5°	32.4
55°	31.4
57.5°	30.3
60°	28.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	22.0
70°	19.9
72.5°	17.8
75°	14.6
77.5°	12.5
80°	9.4
82.5°	7.3
85°	4.2
87.5°	2.1
90°	0.0



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— 0°-180°







62.5°		27.2
65°		25.1



(END OF REPORT)