

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: P436676

Luminaire Tested: **LSR1B08209035D010TExxSL**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436676  
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: LSR1B08209035D010TExxSL  
Description: PORTFOLIO 1INCH CYLINDER, 20 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1042.0 lumens  
Efficiency: N/A  
Efficacy: 63.2 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

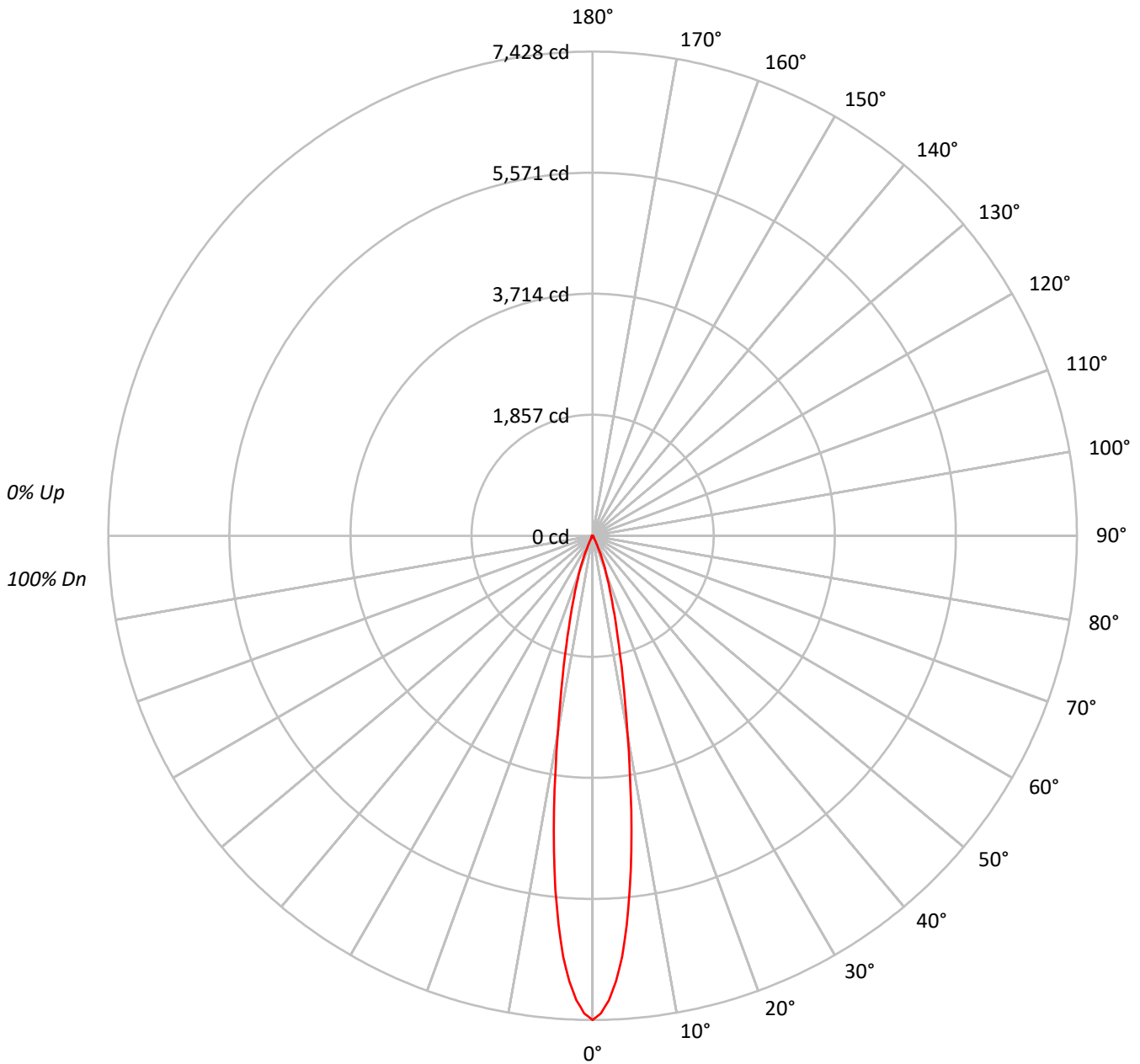
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									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	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°	14660258
5°	11872813
10°	6190716
15°	2750708
20°	1243528
25°	398712
30°	112119
35°	75650
40°	59254
45°	55541
50°	57721
55°	57461
60°	61969
65°	58839
70°	60588
75°	64052
80°	59099
85°	70196



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.8	45.5
10°-20°	391.8	37.6
20°-30°	101.3	9.7
30°-40°	20.3	2.0
40°-50°	15.7	1.5
50°-60°	15.1	1.4
60°-70°	12.6	1.2
70°-80°	8.4	0.8
80°-90°	3.0	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°	966.9	92.8
0°-40°	987.2	94.7
0°-60°	1018.1	97.7
0°-90°	1042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7428	
5°	5993	474
15°	1346	392
25°	183	101
35°	31	20
45°	20	16
55°	17	15
65°	13	13
75°	8	8
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7428.4
1°	7330.1
2°	7128.2
3°	6847.8
4°	6473.3
5°	5993.1
6°	5457.5
7°	4879.0
8°	4250.3
9°	3631.0
10°	3089.2
11°	2617.4
12°	2217.7
13°	1875.7
14°	1588.0
15°	1346.3
16°	1138.2
17°	967.6
18°	821.2
19°	696.7
20°	592.1
21°	499.0
22°	416.4
23°	333.7
24°	252.1
25°	183.1
26°	130.8
27°	95.2
28°	72.2
29°	58.6
30°	49.2
32.5°	37.7
35°	31.4
37.5°	26.2
40°	23.0
42.5°	22.0
45°	19.9
47.5°	18.8
50°	18.8
52.5°	17.8
55°	16.7
57.5°	15.7
60°	15.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	11.5
70°	10.5
72.5°	9.4
75°	8.4
77.5°	6.3
80°	5.2
82.5°	4.2
85°	3.1
87.5°	1.0
90°	0.0



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— 0°-180°







62.5°		13.6
65°		12.6



(END OF REPORT)