

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: P436691

Luminaire Tested: **LSR1B08509040D010TExxSL**

Issue Date: 12/2/2020

Test Information

Test Method: LM-41-14
Report Number: P436691
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: LSR1B08509040D010TExxSL
Description: PORTFOLIO 1INCH CYLINDER, 50 DEG REFLECTOR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

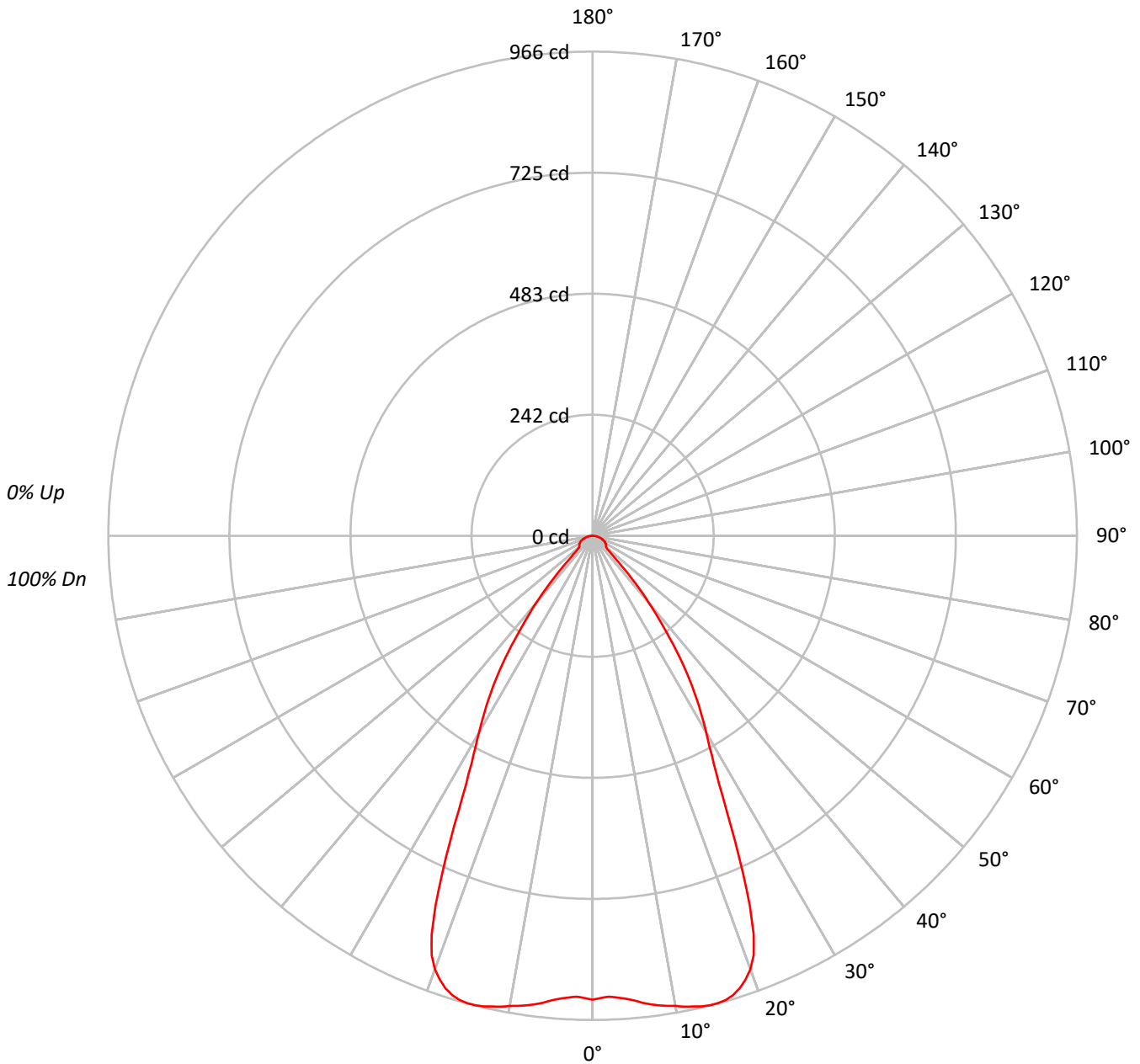
Lumens per Lamp: N/A
Luminaire Lumens: 998.7 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.9
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P436691
CATALOG NUMBER: LSR1B08509040D010TExxSL

Luminous Intensity Polar Plot





TEST NUMBER: P436691

CATALOG NUMBER: LSR1B08509040D010TExxSL

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
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°	1826710
5°	1842405
10°	1909198
15°	1973080
20°	1932603
25°	1463322
30°	1032547
35°	762528
40°	452394
45°	172484
50°	106539
55°	111825
60°	115650
65°	121415
70°	118867
75°	115903
80°	111379
85°	97369



TEST NUMBER: P436691

CATALOG NUMBER: LSR1B08509040D010TExxSL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	9.0
10°-20°	270.5	27.1
20°-30°	307.8	30.8
30°-40°	194.0	19.4
40°-50°	61.0	6.1
50°-60°	29.0	2.9
60°-70°	25.2	2.5
70°-80°	16.3	1.6
80°-90°	5.2	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°	668.0	66.9
0°-40°	862.0	86.3
0°-60°	952.0	95.3
0°-90°	998.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	926	
5°	930	90
15°	966	271
25°	672	308
35°	316	194
45°	62	61
55°	32	29
65°	26	25
75°	15	16
85°	4	5
90°	0	



TEST NUMBER: P436691

CATALOG NUMBER: LSR1B08509040D010TExxSL

CANDELA DISTRIBUTION (FULL):

0°	
0°	925.6
1°	922.4
2°	920.2
3°	922.4
4°	925.6
5°	930.0
6°	936.5
7°	941.9
8°	946.2
9°	949.5
10°	952.7
11°	957.1
12°	960.3
13°	963.6
14°	965.7
15°	965.7
16°	963.6
17°	958.1
18°	949.5
19°	936.5
20°	920.2
21°	896.4
22°	857.3
23°	802.1
24°	738.1
25°	672.0
26°	609.1
27°	556.0
28°	514.8
29°	481.2
30°	453.1
32.5°	386.9
35°	316.5
37.5°	239.5
40°	175.6
42.5°	116.0
45°	61.8
47.5°	40.1
50°	34.7
52.5°	33.6
55°	32.5
57.5°	31.4
60°	29.3



TEST NUMBER: P436691

CATALOG NUMBER: LSR1B08509040D010TExxSL

CANDELA DISTRIBUTION (continued):

	0°
67.5°	22.8
70°	20.6
72.5°	18.4
75°	15.2
77.5°	13.0
80°	9.8
82.5°	7.6
85°	4.3
87.5°	2.2
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°		28.2
65°		26.0



(END OF REPORT)