

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: io LED

Report Number: P224612

Luminaire Tested: **LSSQ2B20FL409050D010 2LBDLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSSQ2B20FL409050D010 2LBDLC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1511.7 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

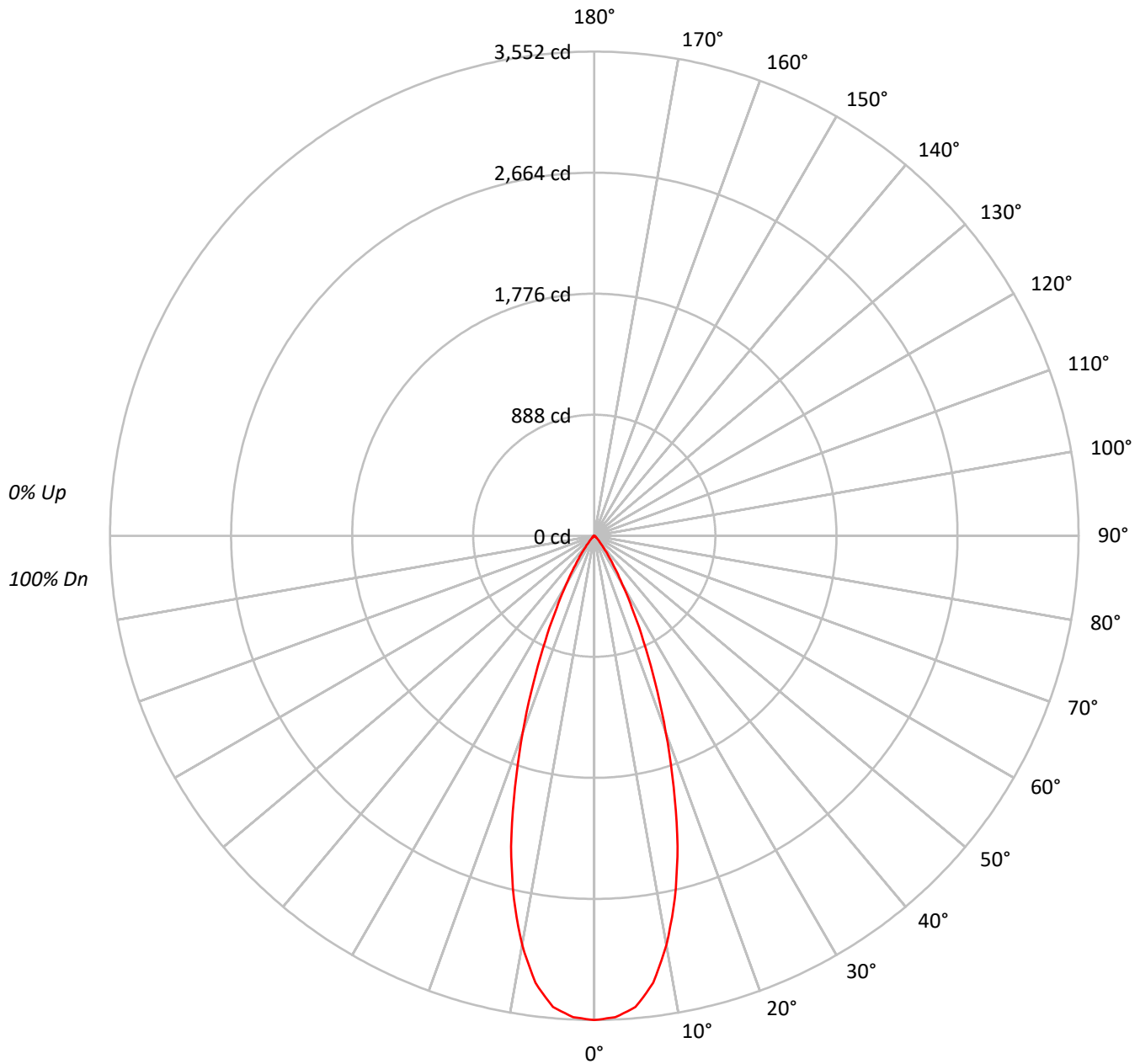
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224612

CATALOG NUMBER: LSSQ2B20FL409050D010 2LBDLC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P224612

CATALOG NUMBER: LSSQ2B20FL409050D010 2LBDLC*MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	112	110	108	112	110	108	106		106	104	103			102	101	100			99
2	110	106	102	100	108	104	101	99		101	99	96			98	96	94			95
3	106	100	96	93	104	99	95	92		97	93	91			94	92	89			92
4	102	95	91	87	100	94	90	87		92	89	86			90	87	85			89
5	98	91	86	83	96	90	86	82		88	85	82			87	83	81			85
6	94	87	82	78	93	86	82	78		85	81	78			83	80	77			82
7	91	83	78	75	89	82	78	75		81	77	74			80	77	74			79
8	87	80	75	71	86	79	75	71		78	74	71			77	73	71			76
9	84	76	72	68	83	76	71	68		75	71	68			74	71	68			74
10	81	74	69	66	81	73	69	66		72	68	65			72	68	65			71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1376047
5°	1349614
10°	1198844
15°	946103
20°	631003
25°	363195
30°	183962
35°	86250
40°	35294
45°	15941
50°	8195
55°	5267
60°	3021
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224612

CATALOG NUMBER: LSSQ2B20FL409050D010 2LBDLC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	21.0
10°-20°	637.5	42.2
20°-30°	399.3	26.4
30°-40°	123.6	8.2
40°-50°	25.5	1.7
50°-60°	7.1	0.5
60°-70°	0.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1354.5	89.6
0°-40°	1478.1	97.8
0°-60°	1510.8	99.9
0°-90°	1511.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3552	
5°	3471	318
15°	2359	638
25°	850	399
35°	182	124
45°	29	26
55°	8	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224612

CATALOG NUMBER: LSSQ2B20FL409050D010 2LBDLC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	3552.5
2.5°	3535.0
5°	3471.0
7.5°	3308.0
10°	3048.0
12.5°	2727.9
15°	2359.3
17.5°	1934.4
20°	1530.8
22.5°	1164.1
25°	849.8
27.5°	597.6
30°	411.3
32.5°	275.5
35°	182.4
37.5°	114.5
40°	69.8
42.5°	44.6
45°	29.1
47.5°	19.4
50°	13.6
52.5°	9.7
55°	7.8
57.5°	5.8
60°	3.9
62.5°	1.9
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)