

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: P#

Luminaire Tested: **LSR2B20WFL559727D010 2LBDL*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14809)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20WFL559727D010 2LBDL*B
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
WIDE FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

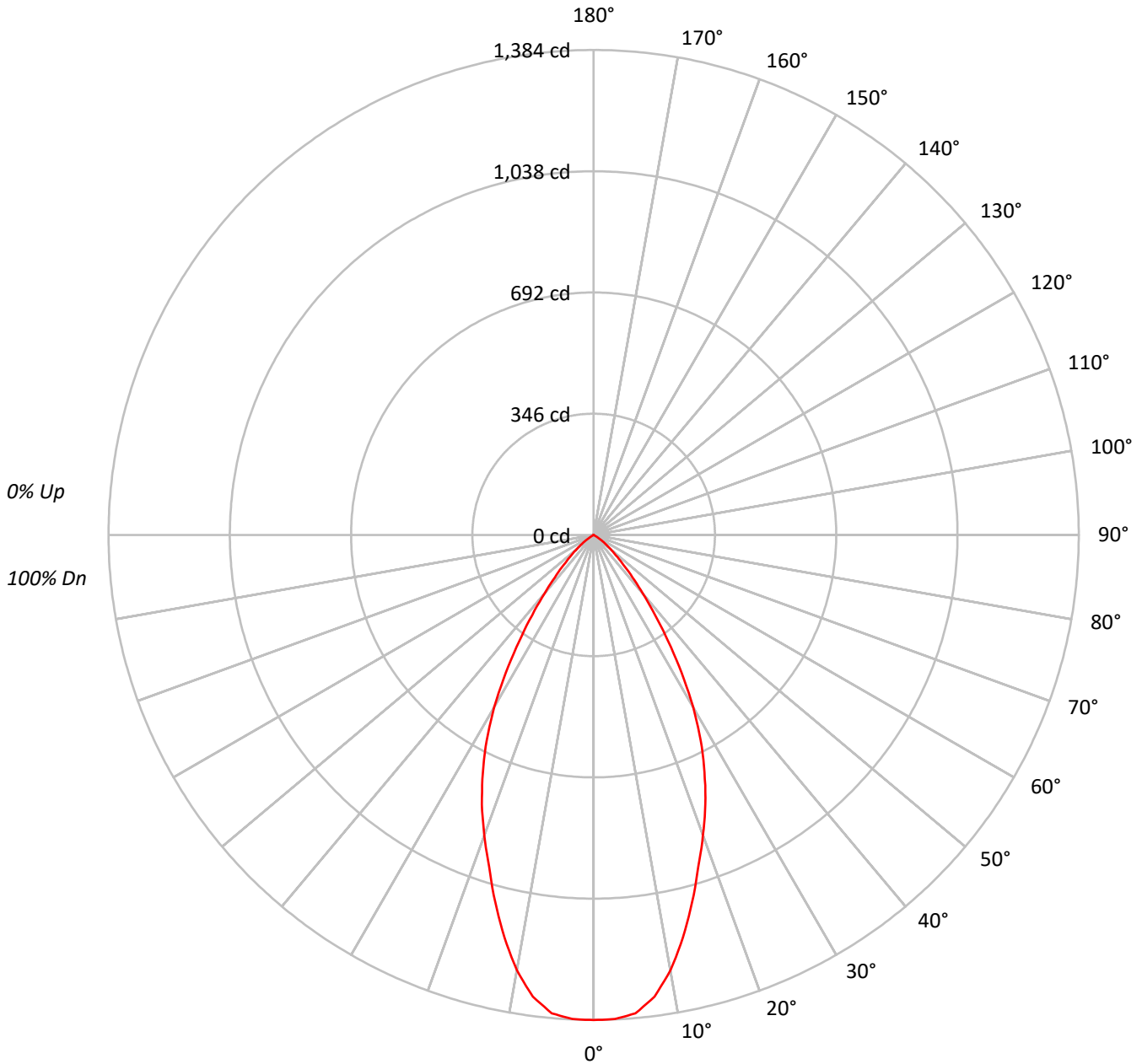
Lumens per Lamp: N/A
Luminaire Lumens: 1126.5 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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: P#
CATALOG NUMBER: LSR2B20WFL559727D010 2LBDL*B

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LSR2B20WFL559727D010 2LBDL*B

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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69		
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65		
7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60		
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57		
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53		
10	71	62	56	52	70	61	56	52	60	55	52	60	55	52	59	55	51	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	536281
5°	532808
10°	496214
15°	435176
20°	375931
25°	319772
30°	253601
35°	175006
40°	109927
45°	65570
50°	37964
55°	19179
60°	1240
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P#

CATALOG NUMBER: LSR2B20WFL559727D010 2LBDL*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	11.3
10°-20°	302.5	26.9
20°-30°	340.4	30.2
30°-40°	233.9	20.8
40°-50°	97.2	8.6
50°-60°	25.1	2.2
60°-70°	0.2	0.0
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°	770.2	68.4
0°-40°	1004.1	89.1
0°-60°	1126.3	100.0
0°-90°	1126.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1384	
5°	1370	127
15°	1085	302
25°	748	340
35°	370	234
45°	120	97
55°	28	25
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P#

CATALOG NUMBER: LSR2B20WFL559727D010 2LBDL*B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1384.5
2.5°	1382.9
5°	1370.3
7.5°	1329.4
10°	1261.6
12.5°	1176.6
15°	1085.2
17.5°	992.3
20°	912.0
22.5°	833.2
25°	748.2
27.5°	661.5
30°	567.0
32.5°	466.2
35°	370.1
37.5°	288.2
40°	217.4
42.5°	163.8
45°	119.7
47.5°	86.6
50°	63.0
52.5°	44.1
55°	28.4
57.5°	9.5
60°	1.6
62.5°	0.0
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)