

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: P225316

Luminaire Tested: **LSR2B20FL409024D010 2LBDC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409024D010 2LBDC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339.6 lumens
Efficiency: N/A
Efficacy: 64.1 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

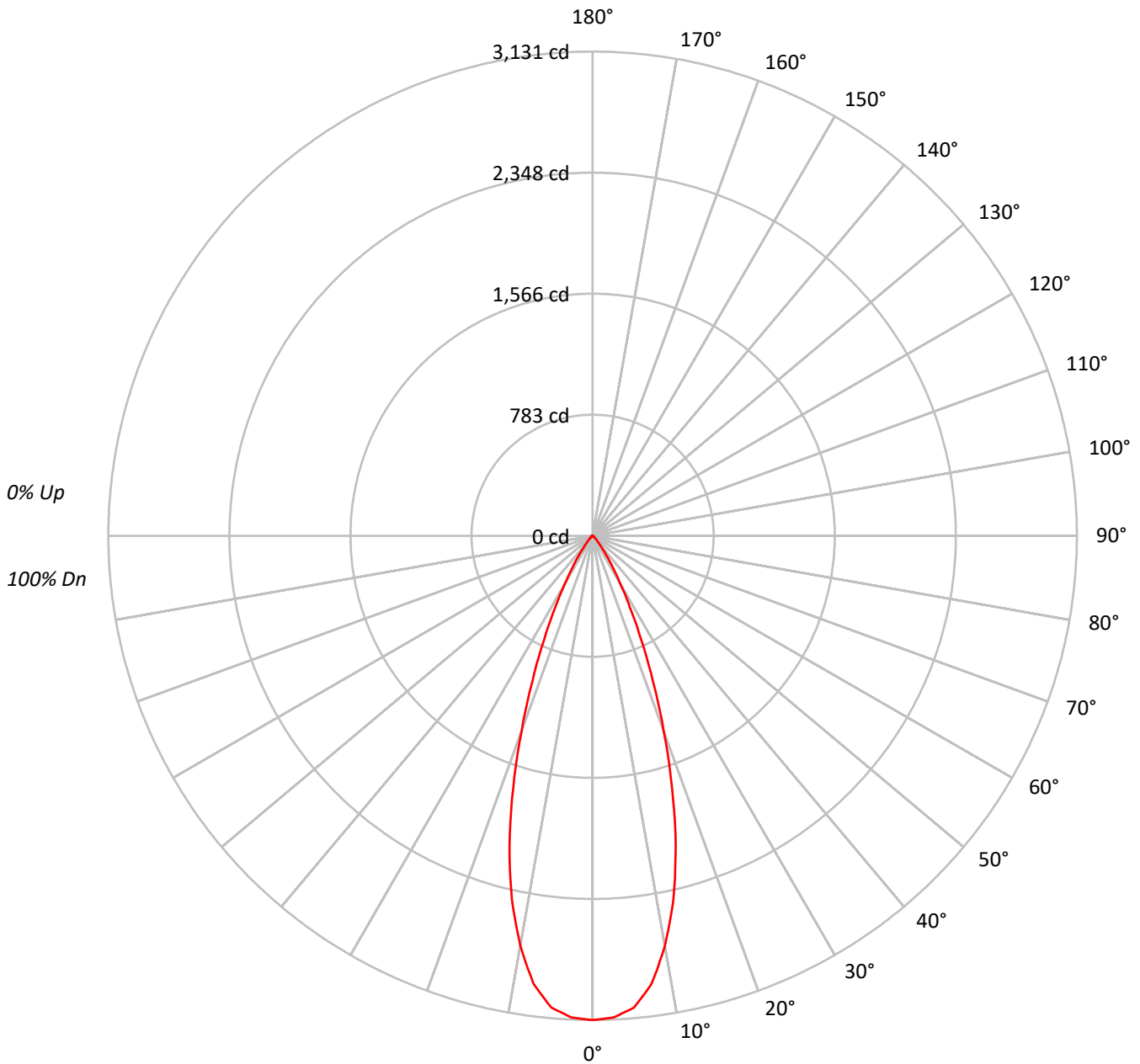
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	91	91	91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86	86	86	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82	82	82	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79	79	79	79
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75	75	75	75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72	72	72	72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1212858
5°	1190739
10°	1058507
15°	832497
20°	553962
25°	318020
30°	160659
35°	75563
40°	30389
45°	15064
50°	8256
55°	5808
60°	5345
65°	3116
70°	3851
75°	2544
80°	3792
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	20.9
10°-20°	562.3	42.0
20°-30°	349.9	26.1
30°-40°	107.5	8.0
40°-50°	23.6	1.8
50°-60°	8.4	0.6
60°-70°	4.2	0.3
70°-80°	2.5	0.2
80°-90°	0.7	0.1
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°	1192.7	89.0
0°-40°	1300.2	97.1
0°-60°	1332.2	99.4
0°-90°	1339.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3131	
5°	3062	280
15°	2076	562
25°	744	350
35°	160	108
45°	28	24
55°	9	8
65°	3	4
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3131.2
2.5°	3117.4
5°	3062.4
7.5°	2923.2
10°	2691.2
12.5°	2412.8
15°	2076.0
17.5°	1708.2
20°	1343.9
22.5°	1019.1
25°	744.1
27.5°	524.2
30°	359.2
32.5°	242.3
35°	159.8
37.5°	96.2
40°	60.1
42.5°	41.2
45°	27.5
47.5°	18.9
50°	13.7
52.5°	12.0
55°	8.6
57.5°	6.9
60°	6.9
62.5°	5.2
65°	3.4
67.5°	3.4
70°	3.4
72.5°	3.4
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)