

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: P224929

Luminaire Tested: **LSR2B20FL409035D010 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409035D010 2LBD*H
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1552.9 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

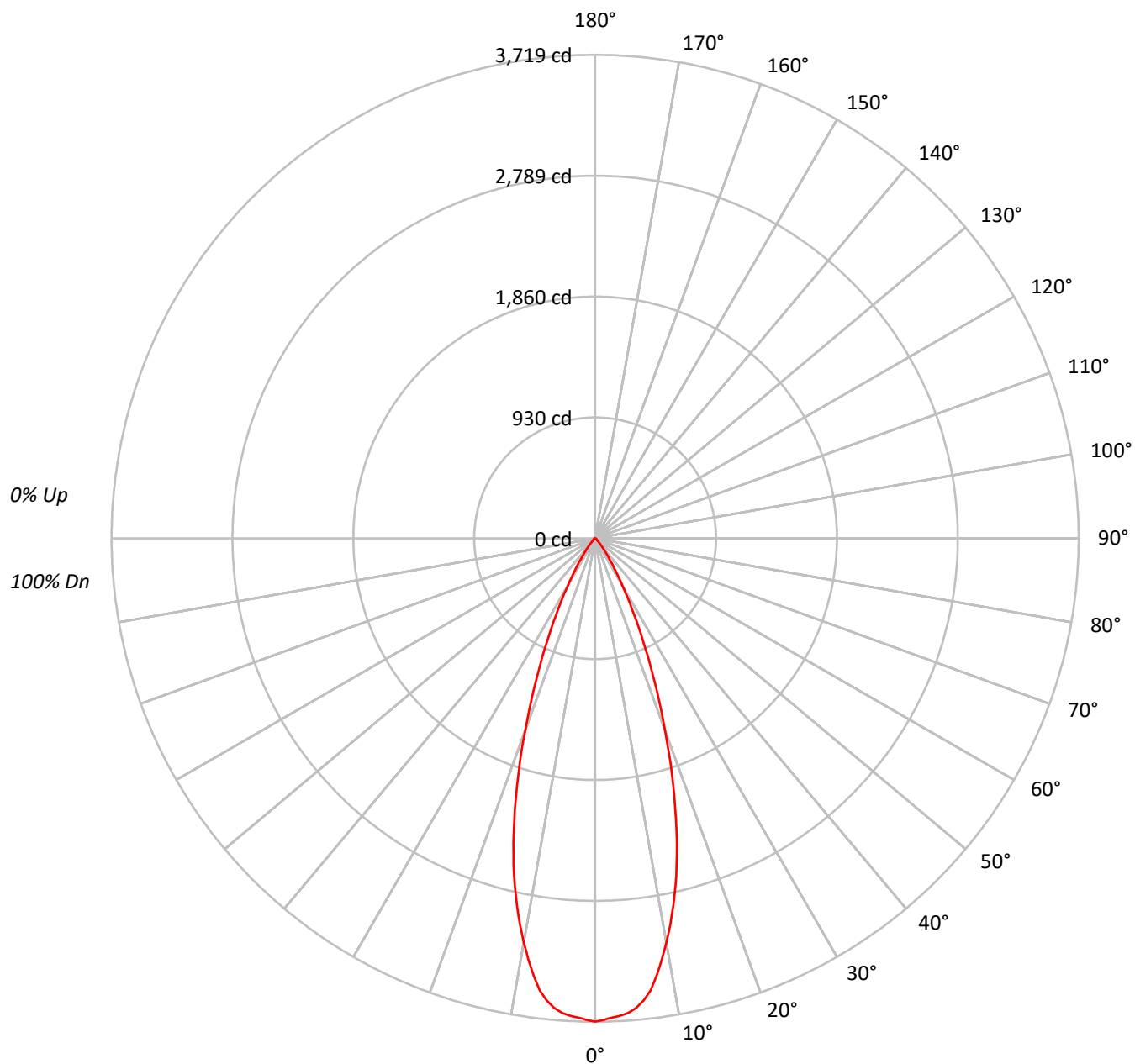
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1440385
5°	1410232
10°	1241991
15°	974414
20°	647079
25°	371444
30°	186287
35°	86014
40°	34991
45°	15667
50°	8135
55°	5065
60°	2324
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.3	21.3
10°-20°	657.7	42.4
20°-30°	408.7	26.3
30°-40°	123.3	7.9
40°-50°	25.2	1.6
50°-60°	6.5	0.4
60°-70°	0.4	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°	1397.6	90.0
0°-40°	1520.9	97.9
0°-60°	1552.5	100.0
0°-90°	1552.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1552.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3719	
5°	3627	331
15°	2430	658
25°	869	409
35°	182	123
45°	29	25
55°	8	6
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3718.6
1°	3706.5
2°	3690.0
3°	3678.0
4°	3659.9
5°	3626.9
6°	3574.2
7°	3502.0
8°	3398.3
9°	3281.0
10°	3157.7
11°	3026.9
12°	2890.1
13°	2747.2
14°	2590.8
15°	2429.9
17.5°	1998.4
20°	1569.8
22.5°	1190.9
25°	869.1
27.5°	613.5
30°	416.5
32.5°	273.7
35°	181.9
37.5°	112.8
40°	69.2
42.5°	45.1
45°	28.6
47.5°	18.0
50°	13.5
52.5°	9.0
55°	7.5
57.5°	4.5
60°	3.0
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)