

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: P225160

Luminaire Tested: **LSR2B20FL409040D010 2LBD*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409040D010 2LBD*GPH
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1606.2 lumens
Efficiency: N/A
Efficacy: 76.9 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

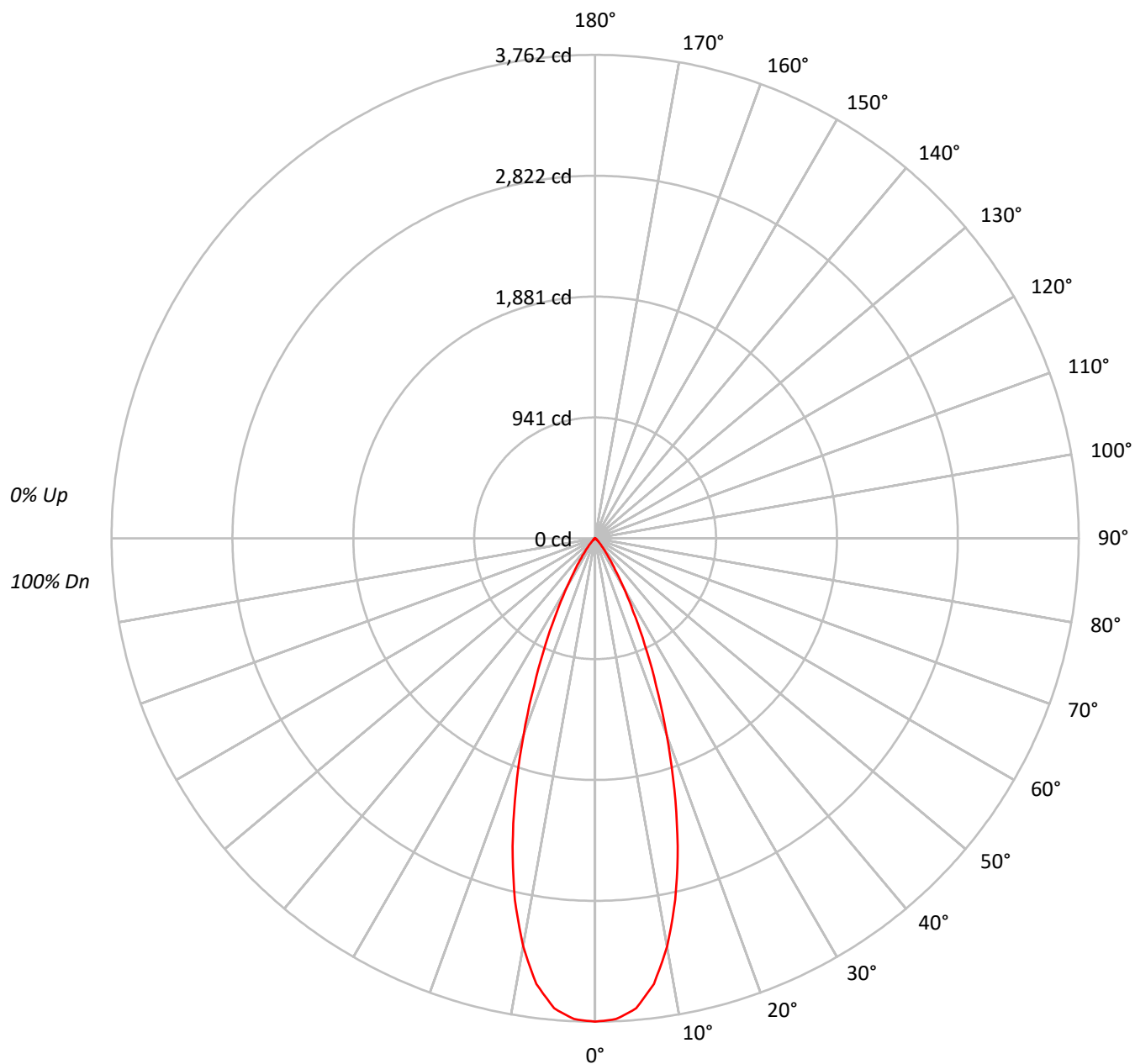
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	98		101	99	96			98	96	94			95
3	106	100	96	93		104	99	95	92		96	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	85	82		88	84	81			87	83	81			85
6	94	87	82	78		93	86	81	78		85	81	78			83	80	77			82
7	91	83	78	75		89	82	78	74		81	77	74			80	76	74			79
8	87	80	75	71		86	79	74	71		78	74	71			77	73	71			76
9	84	76	72	68		83	76	71	68		75	71	68			74	70	68			73
10	81	73	69	65		80	73	68	65		72	68	65			72	68	65			71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1457079
5°	1427612
10°	1268540
15°	995267
20°	669380
25°	389437
30°	195099
35°	91026
40°	42474
45°	17968
50°	8617
55°	5538
60°	3176
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.1	20.9
10°-20°	673.7	41.9
20°-30°	426.0	26.5
30°-40°	132.5	8.3
40°-50°	29.4	1.8
50°-60°	7.5	0.5
60°-70°	1.0	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°	1435.8	89.4
0°-40°	1568.3	97.6
0°-60°	1605.2	99.9
0°-90°	1606.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3762	
5°	3672	336
15°	2482	674
25°	911	426
35°	192	133
45°	33	29
55°	8	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3761.7
2.5°	3745.3
5°	3671.6
7.5°	3497.6
10°	3225.2
12.5°	2881.2
15°	2481.9
17.5°	2049.8
20°	1623.9
22.5°	1240.9
25°	911.2
27.5°	638.9
30°	436.2
32.5°	288.7
35°	192.5
37.5°	129.0
40°	84.0
42.5°	51.2
45°	32.8
47.5°	22.5
50°	14.3
52.5°	10.2
55°	8.2
57.5°	6.1
60°	4.1
62.5°	2.0
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



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— 0°-180°







(END OF REPORT)