

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: P224381

Luminaire Tested: **LD2B20D010 EU2B20FL408030 2LBDSQC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224381
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: LD2B20D010 EU2B20FL408030 2LBDSQC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1768.8 lumens
Efficiency: N/A
Efficacy: 84.6 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

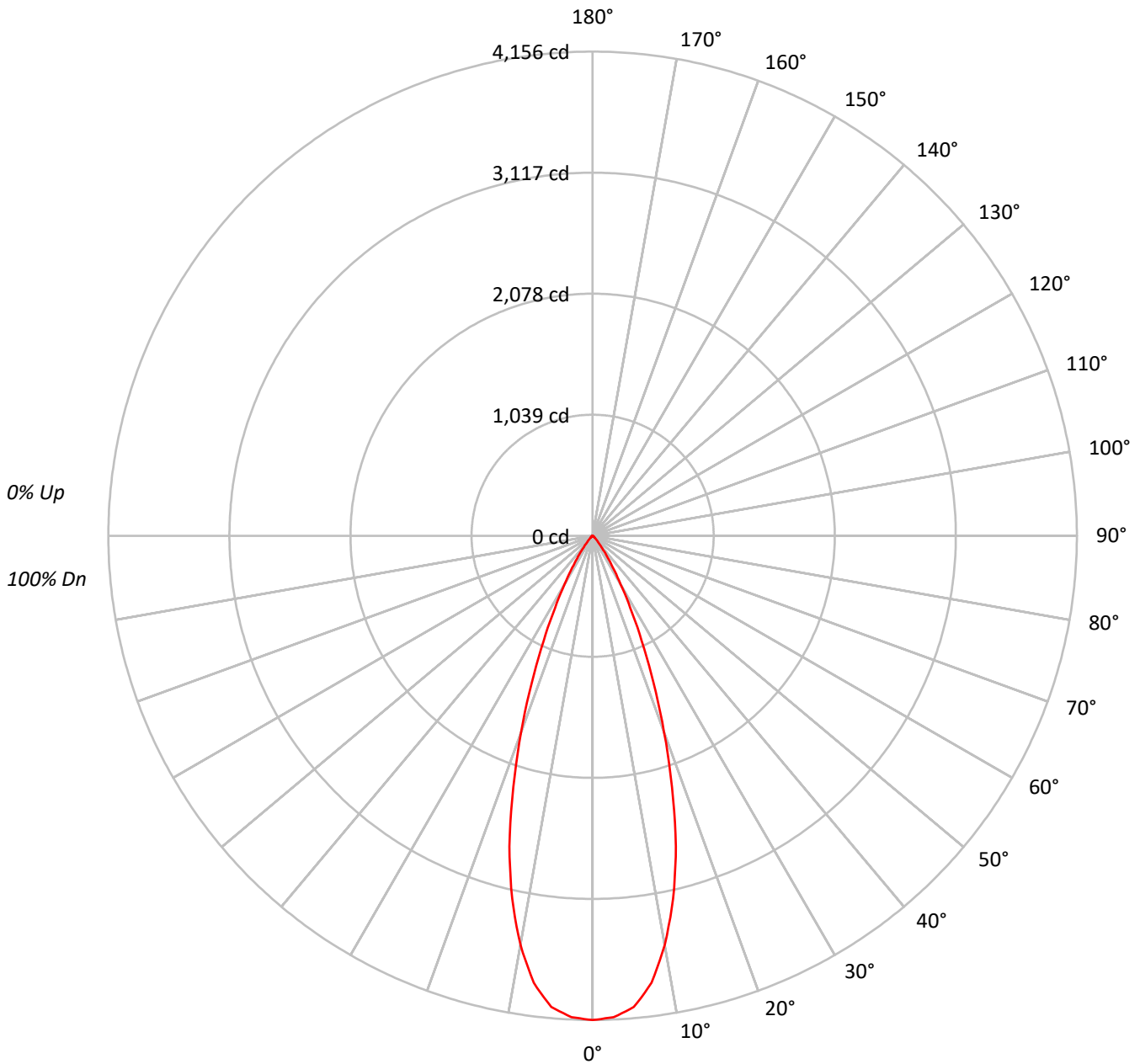
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1610004
5°	1579098
10°	1402702
15°	1106948
20°	738300
25°	424953
30°	215270
35°	100909
40°	41311
45°	18680
50°	9581
55°	6145
60°	3486
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.7	21.0
10°-20°	745.9	42.2
20°-30°	467.2	26.4
30°-40°	144.6	8.2
40°-50°	29.9	1.7
50°-60°	8.3	0.5
60°-70°	1.1	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°	1584.9	89.6
0°-40°	1729.5	97.8
0°-60°	1767.7	99.9
0°-90°	1768.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4156	
5°	4061	372
15°	2760	746
25°	994	467
35°	213	145
45°	34	30
55°	9	8
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4156.5
2.5°	4136.1
5°	4061.2
7.5°	3870.5
10°	3566.3
12.5°	3191.7
15°	2760.4
17.5°	2263.3
20°	1791.1
22.5°	1362.1
25°	994.3
27.5°	699.2
30°	481.3
32.5°	322.4
35°	213.4
37.5°	133.9
40°	81.7
42.5°	52.2
45°	34.1
47.5°	22.7
50°	15.9
52.5°	11.4
55°	9.1
57.5°	6.8
60°	4.5
62.5°	2.3
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)