

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: P225267

Luminaire Tested: **LD2B20D010 EU2B20FL409024 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409024 2LBDSQLC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1162.9 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

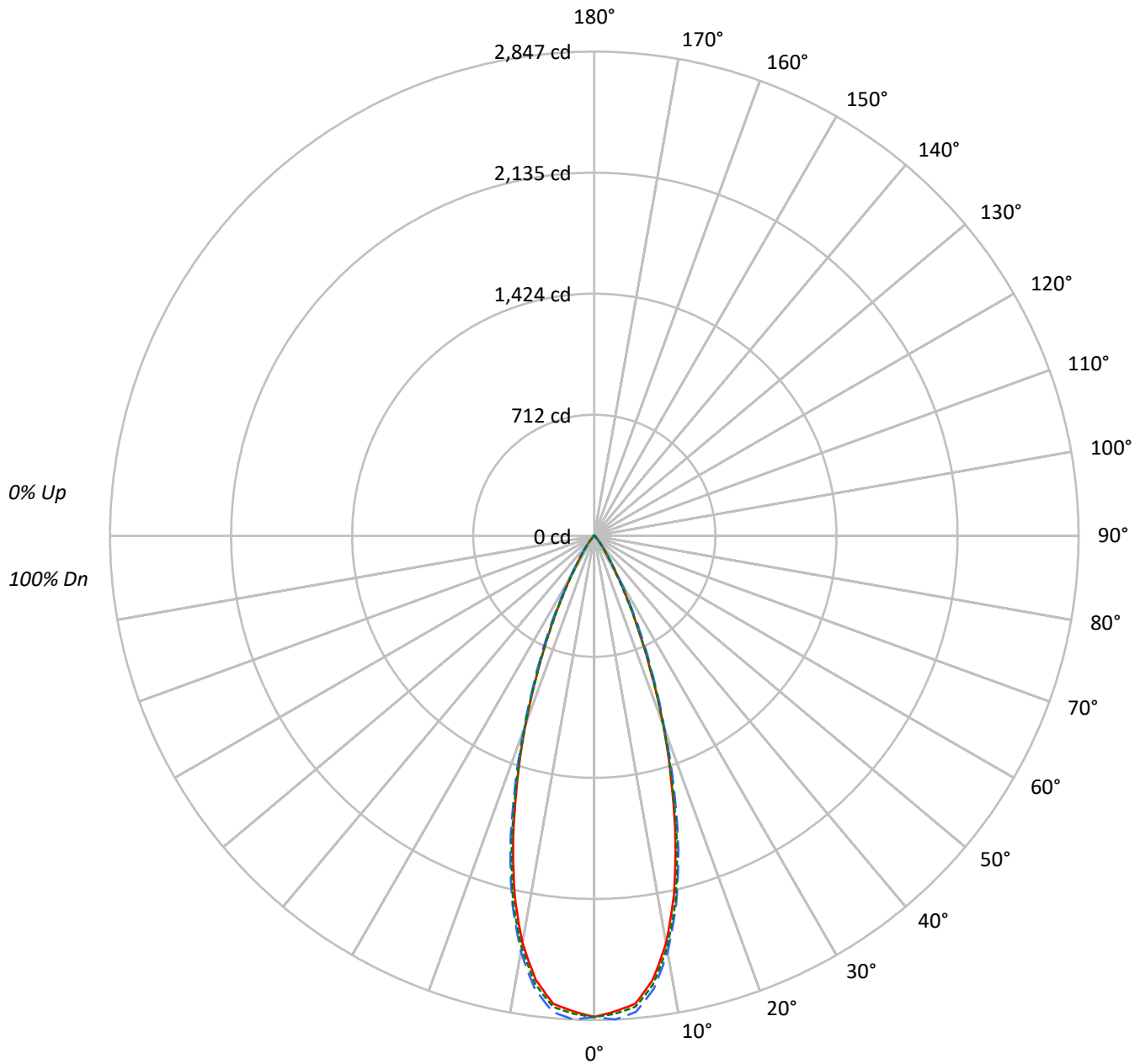
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	115	112	110	108	112	110	108	107		106	105	103			102	101	100			99
2	110	106	103	100	108	105	102	99		101	99	97			98	97	95			96
3	106	101	97	94	104	99	96	93		97	94	91			95	92	90			92
4	102	96	92	88	100	95	91	88		93	89	87			91	88	86			89
5	98	92	87	84	97	91	86	83		89	85	82			88	84	82			86
6	95	88	83	79	93	87	82	79		86	82	79			84	81	78			83
7	91	84	79	76	90	83	79	76		82	78	75			81	78	75			80
8	88	81	76	73	87	80	76	73		79	75	72			78	75	72			77
9	85	78	73	70	84	77	73	70		76	72	69			76	72	69			75
10	82	75	70	67	82	74	70	67		74	70	67			73	69	67			72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1095879	1095879	1095879
5°	1074247	1092678	1081013
10°	955968	976499	966548
15°	738580	765248	751934
20°	487226	497655	489823
25°	265793	284043	267118
30°	119600	132347	114635
35°	51637	53102	47144
40°	21591	22400	20024
45°	8655	9532	9532
50°	3796	4761	4761
55°	2161	2161	3174
60°	1240	1240	1240
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	22.0
10°-20°	509.1	43.8
20°-30°	300.7	25.9
30°-40°	78.3	6.7
40°-50°	15.5	1.3
50°-60°	3.4	0.3
60°-70°	0.3	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°	1065.5	91.6
0°-40°	1143.7	98.4
0°-60°	1162.6	100.0
0°-90°	1162.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2829	2829	2829	2829	2829	
5°	2763	2785	2810	2791	2780	253
15°	1842	1883	1908	1880	1875	500
25°	622	642	665	639	625	293
35°	109	114	112	111	100	76
45°	16	19	17	17	17	14
55°	3	3	3	3	5	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2829.2	2829.2	2829.2	2829.2	2829.2
2.5°	2799.2	2827.6	2846.6	2830.8	2813.4
5°	2762.8	2784.9	2810.2	2791.2	2780.2
7.5°	2633.0	2666.2	2685.2	2675.7	2658.3
10°	2430.5	2455.8	2482.7	2473.2	2457.4
12.5°	2163.1	2197.9	2223.2	2201.0	2204.2
15°	1841.8	1883.0	1908.3	1879.8	1875.1
17.5°	1501.6	1533.3	1550.7	1533.3	1520.6
20°	1182.0	1201.0	1207.3	1199.4	1188.3
22.5°	873.4	894.0	913.0	894.0	879.8
25°	621.9	642.4	664.6	639.3	625.0
27.5°	419.3	432.0	451.0	427.2	406.7
30°	267.4	281.7	295.9	278.5	256.3
32.5°	169.3	178.8	180.4	177.2	158.2
35°	109.2	113.9	112.3	110.8	99.7
37.5°	69.6	69.6	71.2	69.6	63.3
40°	42.7	45.9	44.3	42.7	39.6
42.5°	25.3	28.5	26.9	26.9	25.3
45°	15.8	19.0	17.4	17.4	17.4
47.5°	11.1	12.7	11.1	11.1	12.7
50°	6.3	7.9	7.9	7.9	7.9
52.5°	4.7	4.7	4.7	4.7	6.3
55°	3.2	3.2	3.2	3.2	4.7
57.5°	3.2	3.2	1.6	1.6	3.2
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)