

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: P225221

Luminaire Tested: **LD2B05D010 EU2B05FL409730 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225221
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: LD2B05D010 EU2B05FL409730 2LBDSQLC*MB
Description: 500 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: 496.0 lumens
Efficiency: N/A
Efficacy: 67.9 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

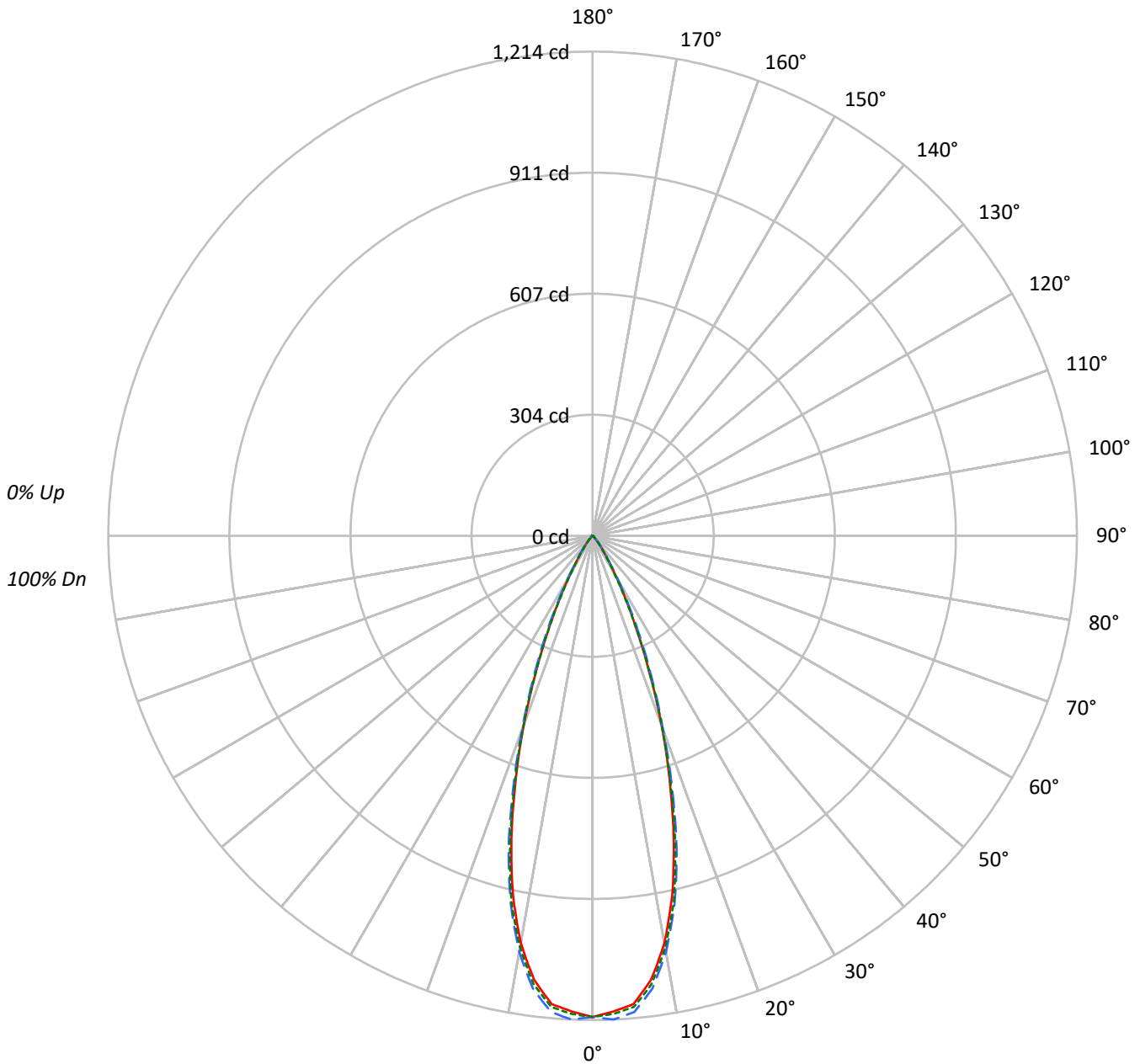
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	467410	467410	467410
5°	458192	466046	461069
10°	407717	416488	412240
15°	315034	326382	320728
20°	207793	212244	208905
25°	113344	121165	113942
30°	51033	56445	48886
35°	22035	22650	20097
40°	9203	9557	8545
45°	3670	4054	4054
50°	1627	2049	2049
55°	878	878	1351
60°	542	542	542
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°	109.1	22.0
10°-20°	217.1	43.8
20°-30°	128.2	25.9
30°-40°	33.4	6.7
40°-50°	6.6	1.3
50°-60°	1.4	0.3
60°-70°	0.1	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°	454.4	91.6
0°-40°	487.8	98.4
0°-60°	495.9	100.0
0°-90°	496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1178	1188	1199	1190	1186	108
15°	786	803	814	802	800	213
25°	265	274	284	273	267	125
35°	47	49	48	47	42	33
45°	7	8	7	7	7	6
55°	1	1	1	1	2	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.7	1206.7	1206.7	1206.7	1206.7
2.5°	1193.9	1206.0	1214.1	1207.4	1200.0
5°	1178.4	1187.8	1198.6	1190.5	1185.8
7.5°	1123.0	1137.2	1145.3	1141.3	1133.8
10°	1036.6	1047.4	1058.9	1054.9	1048.1
12.5°	922.6	937.4	948.2	938.8	940.1
15°	785.6	803.1	813.9	801.8	799.8
17.5°	640.5	654.0	661.4	654.0	648.6
20°	504.1	512.2	514.9	511.6	506.8
22.5°	372.5	381.3	389.4	381.3	375.2
25°	265.2	274.0	283.5	272.7	266.6
27.5°	178.8	184.2	192.3	182.2	173.4
30°	114.1	120.1	126.2	118.8	109.3
32.5°	72.2	76.3	76.9	75.6	67.5
35°	46.6	48.6	47.9	47.2	42.5
37.5°	29.7	29.7	30.4	29.7	27.0
40°	18.2	19.6	18.9	18.2	16.9
42.5°	10.8	12.1	11.5	11.5	10.8
45°	6.7	8.1	7.4	7.4	7.4
47.5°	4.7	5.4	4.7	4.7	5.4
50°	2.7	3.4	3.4	3.4	3.4
52.5°	2.0	2.0	2.0	2.0	2.7
55°	1.3	1.3	1.3	1.3	2.0
57.5°	1.3	1.3	0.7	0.7	1.3
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.0	0.0	0.0	0.7
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)