

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: P225237

Luminaire Tested: **LD2B20D010 EU2B20FL409050 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225237
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 EU2B20FL409050 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: 1424.5 lumens
Efficiency: N/A
Efficacy: 68.2 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

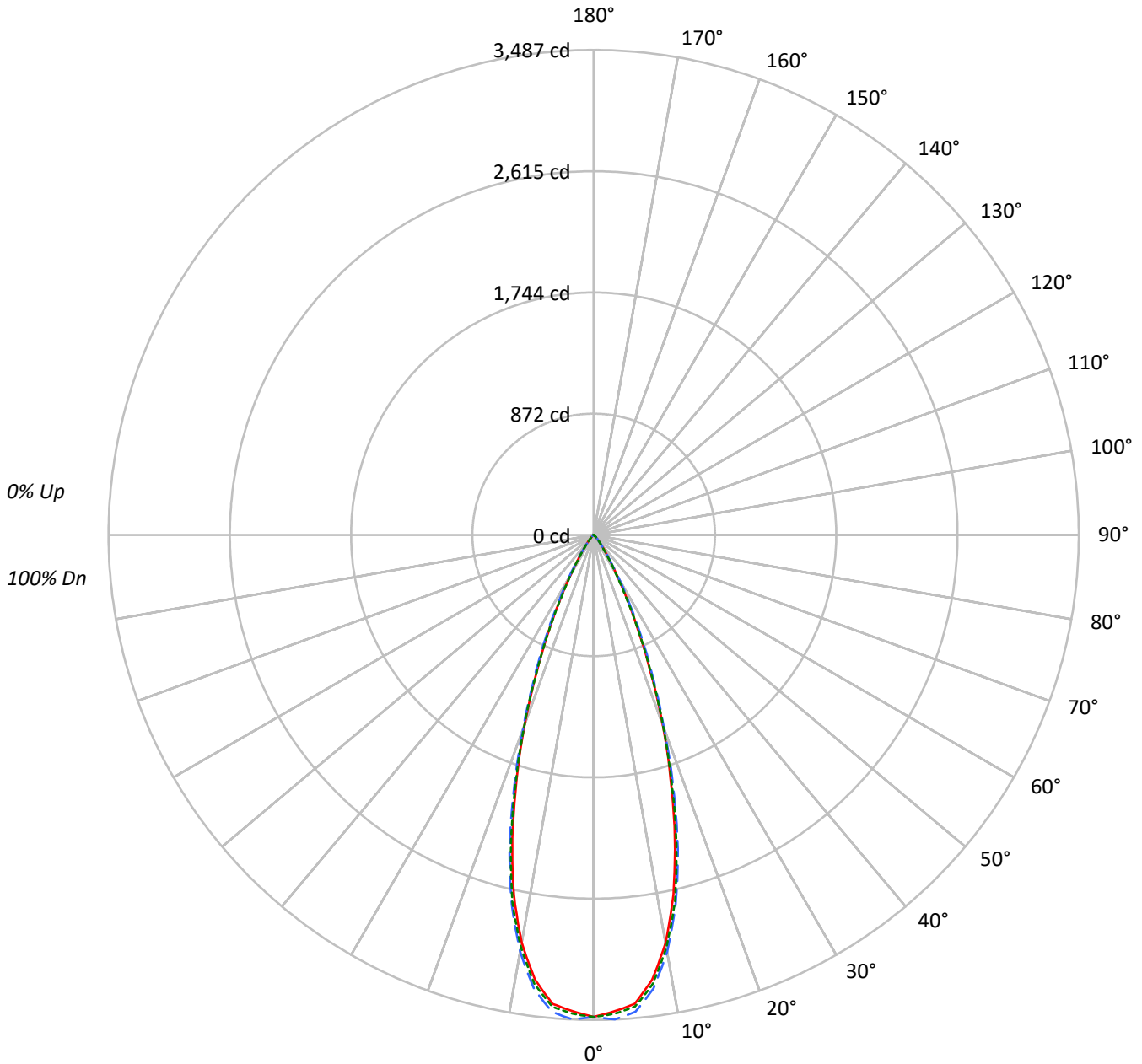
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1342425	1342425	1342425
5°	1315902	1338493	1324184
10°	1170997	1196169	1183976
15°	904759	937401	921080
20°	596832	609610	600047
25°	325542	347937	327209
30°	146525	162135	140442
35°	63222	65066	57736
40°	26445	27456	24524
45°	10627	11668	11668
50°	4700	5845	5845
55°	2634	2634	3917
60°	1472	1472	1472
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°	313.2	22.0
10°-20°	623.6	43.8
20°-30°	368.3	25.9
30°-40°	95.9	6.7
40°-50°	19.0	1.3
50°-60°	4.1	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°	1305.1	91.6
0°-40°	1401.0	98.4
0°-60°	1424.2	100.0
0°-90°	1424.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3466	3466	3466	3466	3466	
5°	3384	3411	3442	3419	3406	310
15°	2256	2307	2338	2303	2297	612
25°	762	787	814	783	766	359
35°	134	140	138	136	122	94
45°	19	23	21	21	21	18
55°	4	4	4	4	6	4
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°	3465.7	3465.7	3465.7	3465.7	3465.7
2.5°	3428.8	3463.7	3487.0	3467.6	3446.3
5°	3384.3	3411.4	3442.4	3419.1	3405.6
7.5°	3225.3	3266.0	3289.3	3277.6	3256.3
10°	2977.2	3008.2	3041.2	3029.5	3010.2
12.5°	2649.6	2692.3	2723.3	2696.2	2700.0
15°	2256.2	2306.6	2337.6	2302.7	2296.9
17.5°	1839.4	1878.2	1899.5	1878.2	1862.7
20°	1447.9	1471.2	1478.9	1469.2	1455.7
22.5°	1069.9	1095.1	1118.4	1095.1	1077.7
25°	761.7	786.9	814.1	783.1	765.6
27.5°	513.6	529.2	552.4	523.3	498.1
30°	327.6	345.0	362.5	341.1	314.0
32.5°	207.4	219.0	221.0	217.1	193.8
35°	133.7	139.6	137.6	135.7	122.1
37.5°	85.3	85.3	87.2	85.3	77.5
40°	52.3	56.2	54.3	52.3	48.5
42.5°	31.0	34.9	33.0	33.0	31.0
45°	19.4	23.3	21.3	21.3	21.3
47.5°	13.6	15.5	13.6	13.6	15.5
50°	7.8	9.7	9.7	9.7	9.7
52.5°	5.8	5.8	5.8	5.8	7.8
55°	3.9	3.9	3.9	3.9	5.8
57.5°	3.9	3.9	1.9	1.9	3.9
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	0.0	0.0	0.0	1.9
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)