

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: P225196

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225196
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 EU2B20FL408040 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1853.3 lumens
Efficiency: N/A
Efficacy: 88.7 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

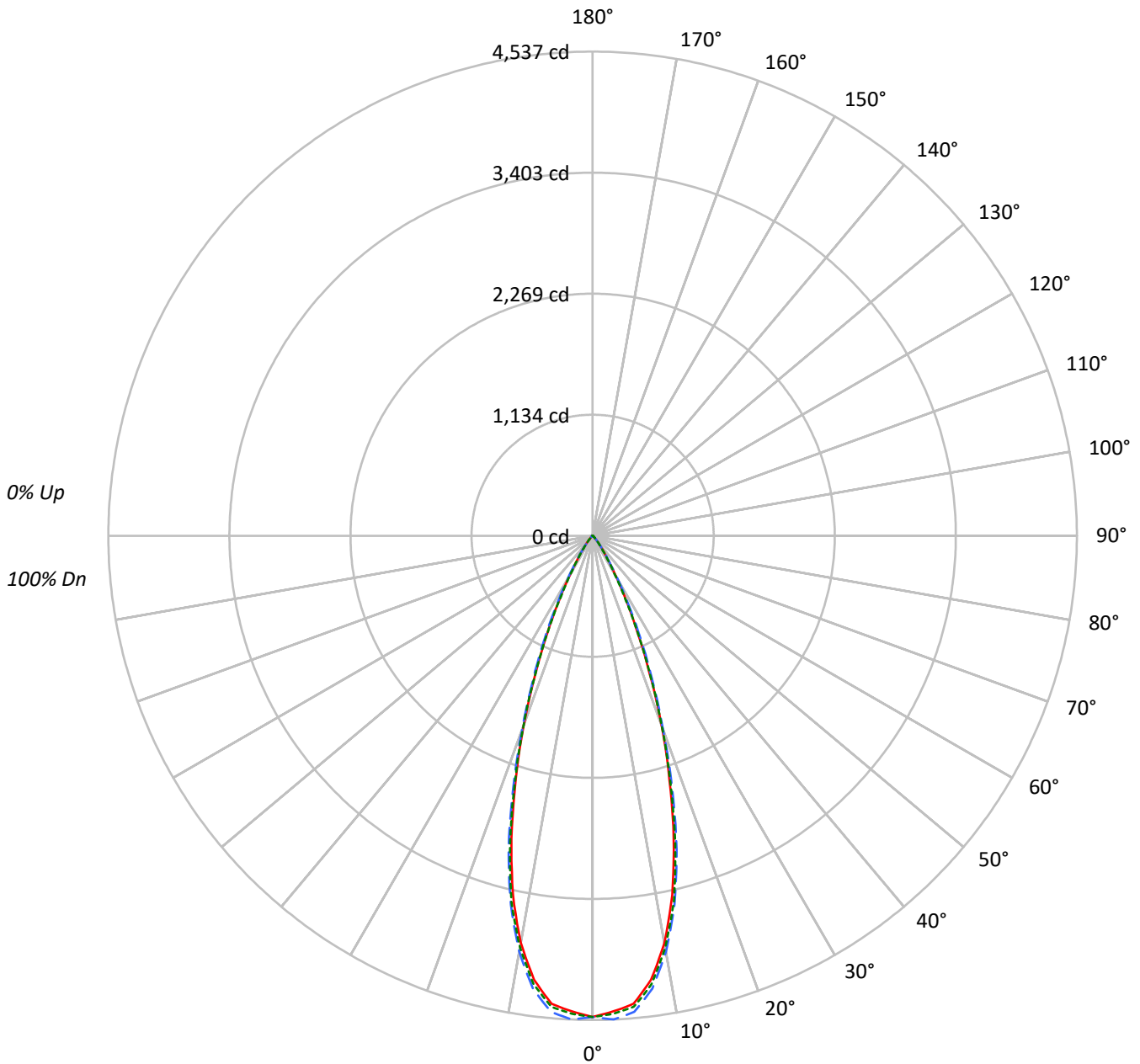
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225196

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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°	1746504	1746504	1746504
5°	1711999	1741394	1722770
10°	1523491	1556216	1540365
15°	1177085	1219552	1198338
20°	776471	793124	780634
25°	423543	452648	425722
30°	190626	210932	182709
35°	82278	84642	75138
40°	34434	35698	31856
45°	13804	15174	15174
50°	6086	7593	7593
55°	3377	3377	5132
60°	1937	1937	1937
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°	407.5	22.0
10°-20°	811.3	43.8
20°-30°	479.2	25.9
30°-40°	124.8	6.7
40°-50°	24.7	1.3
50°-60°	5.4	0.3
60°-70°	0.5	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°	1698.0	91.6
0°-40°	1822.8	98.4
0°-60°	1852.8	100.0
0°-90°	1853.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4509	4509	4509	4509	4509	
5°	4403	4438	4479	4448	4431	403
15°	2935	3001	3041	2996	2988	796
25°	991	1024	1059	1019	996	467
35°	174	182	179	176	159	122
45°	25	30	28	28	28	23
55°	5	5	5	5	8	5
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°	4508.9	4508.9	4508.9	4508.9	4508.9
2.5°	4461.0	4506.4	4536.6	4511.4	4483.7
5°	4403.0	4438.3	4478.6	4448.4	4430.7
7.5°	4196.2	4249.1	4279.4	4264.3	4236.5
10°	3873.4	3913.8	3956.6	3941.5	3916.3
12.5°	3447.2	3502.7	3543.1	3507.8	3512.8
15°	2935.3	3000.9	3041.2	2995.8	2988.3
17.5°	2393.1	2443.6	2471.3	2443.6	2423.4
20°	1883.7	1914.0	1924.1	1911.5	1893.8
22.5°	1392.0	1424.8	1455.0	1424.8	1402.1
25°	991.0	1023.8	1059.1	1018.8	996.1
27.5°	668.3	688.4	718.7	680.9	648.1
30°	426.2	448.9	471.6	443.8	408.5
32.5°	269.8	285.0	287.5	282.4	252.2
35°	174.0	181.6	179.0	176.5	158.9
37.5°	111.0	111.0	113.5	111.0	100.9
40°	68.1	73.1	70.6	68.1	63.0
42.5°	40.3	45.4	42.9	42.9	40.3
45°	25.2	30.3	27.7	27.7	27.7
47.5°	17.7	20.2	17.7	17.7	20.2
50°	10.1	12.6	12.6	12.6	12.6
52.5°	7.6	7.6	7.6	7.6	10.1
55°	5.0	5.0	5.0	5.0	7.6
57.5°	5.0	5.0	2.5	2.5	5.0
60°	2.5	2.5	2.5	2.5	2.5
62.5°	2.5	0.0	0.0	0.0	2.5
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)