

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: P225197

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225197
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 EU2B20FL408050 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: 1841.2 lumens
Efficiency: N/A
Efficacy: 88.1 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

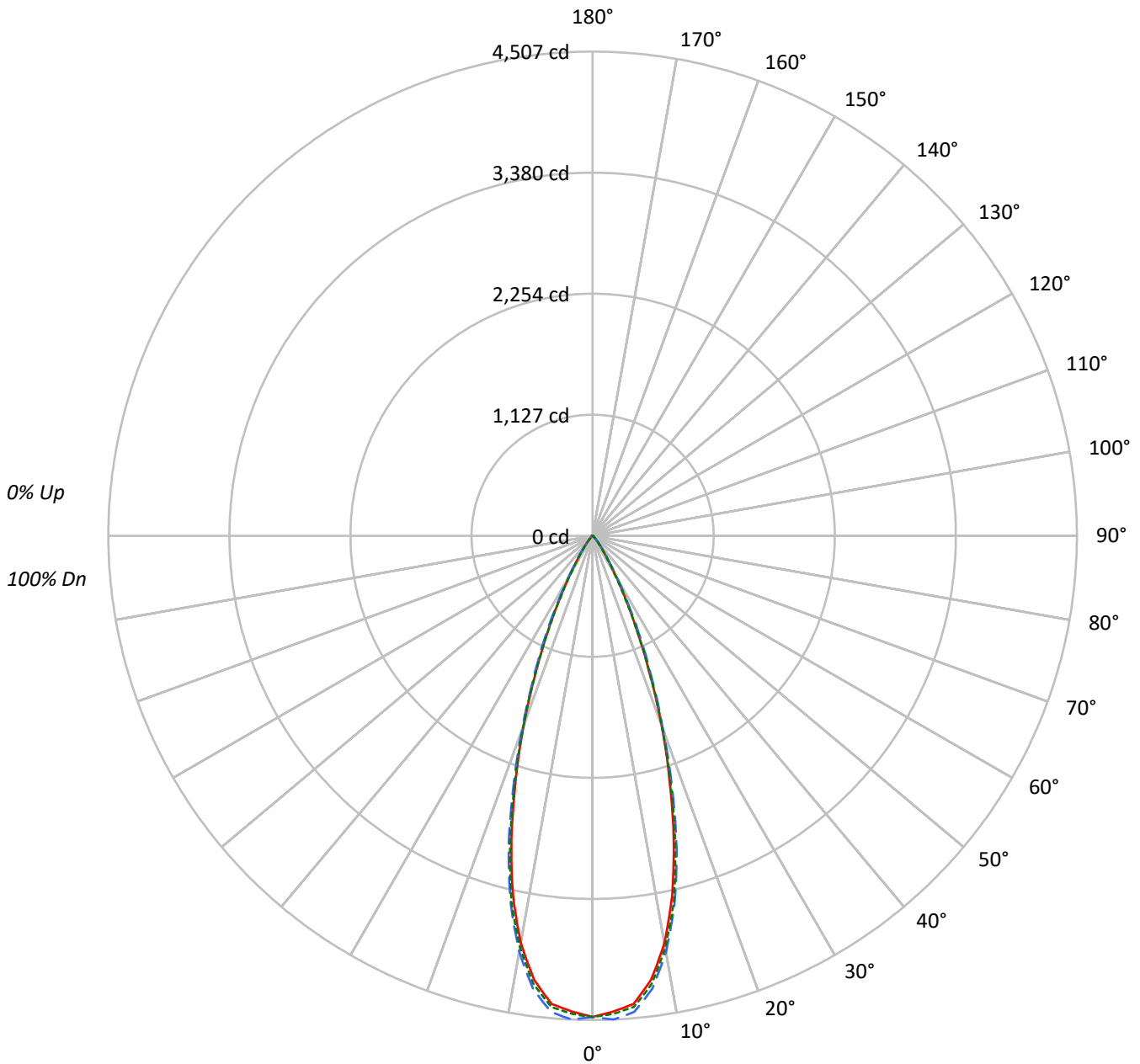
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1735116	1735116	1735116
5°	1700801	1730041	1711532
10°	1513540	1546068	1530296
15°	1169426	1211612	1190519
20°	771400	787930	775564
25°	420807	449699	422944
30°	189374	209545	181546
35°	81758	84122	74618
40°	34182	35446	31653
45°	13750	15119	15119
50°	6026	7533	7533
55°	3377	3377	5065
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°	404.9	22.0
10°-20°	806.0	43.8
20°-30°	476.1	25.9
30°-40°	123.9	6.7
40°-50°	24.5	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°	1686.9	91.6
0°-40°	1810.9	98.4
0°-60°	1840.7	100.0
0°-90°	1841.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4480	4480	4480	4480	4480	
5°	4374	4409	4449	4419	4402	400
15°	2916	2981	3021	2976	2969	791
25°	985	1017	1052	1012	990	464
35°	173	180	178	175	158	121
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°	4479.5	4479.5	4479.5	4479.5	4479.5
2.5°	4431.9	4476.9	4507.0	4482.0	4454.4
5°	4374.2	4409.3	4449.4	4419.3	4401.8
7.5°	4168.8	4221.4	4251.5	4236.4	4208.9
10°	3848.1	3888.2	3930.8	3915.8	3890.7
12.5°	3424.7	3479.8	3519.9	3484.9	3489.9
15°	2916.2	2981.3	3021.4	2976.3	2968.8
17.5°	2377.5	2427.6	2455.2	2427.6	2407.6
20°	1871.4	1901.5	1911.5	1899.0	1881.5
22.5°	1382.9	1415.5	1445.6	1415.5	1392.9
25°	984.6	1017.1	1052.2	1012.1	989.6
27.5°	663.9	683.9	714.0	676.4	643.9
30°	423.4	445.9	468.5	440.9	405.9
32.5°	268.1	283.1	285.6	280.6	250.5
35°	172.9	180.4	177.9	175.4	157.8
37.5°	110.2	110.2	112.7	110.2	100.2
40°	67.6	72.7	70.1	67.6	62.6
42.5°	40.1	45.1	42.6	42.6	40.1
45°	25.1	30.1	27.6	27.6	27.6
47.5°	17.5	20.0	17.5	17.5	20.0
50°	10.0	12.5	12.5	12.5	12.5
52.5°	7.5	7.5	7.5	7.5	10.0
55°	5.0	5.0	5.0	5.0	7.5
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)