

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: P225201

Luminaire Tested: **LD2B20D010 EU2B20FL409035 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225201
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 EU2B20FL409035 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: 1475.4 lumens
Efficiency: N/A
Efficacy: 70.6 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

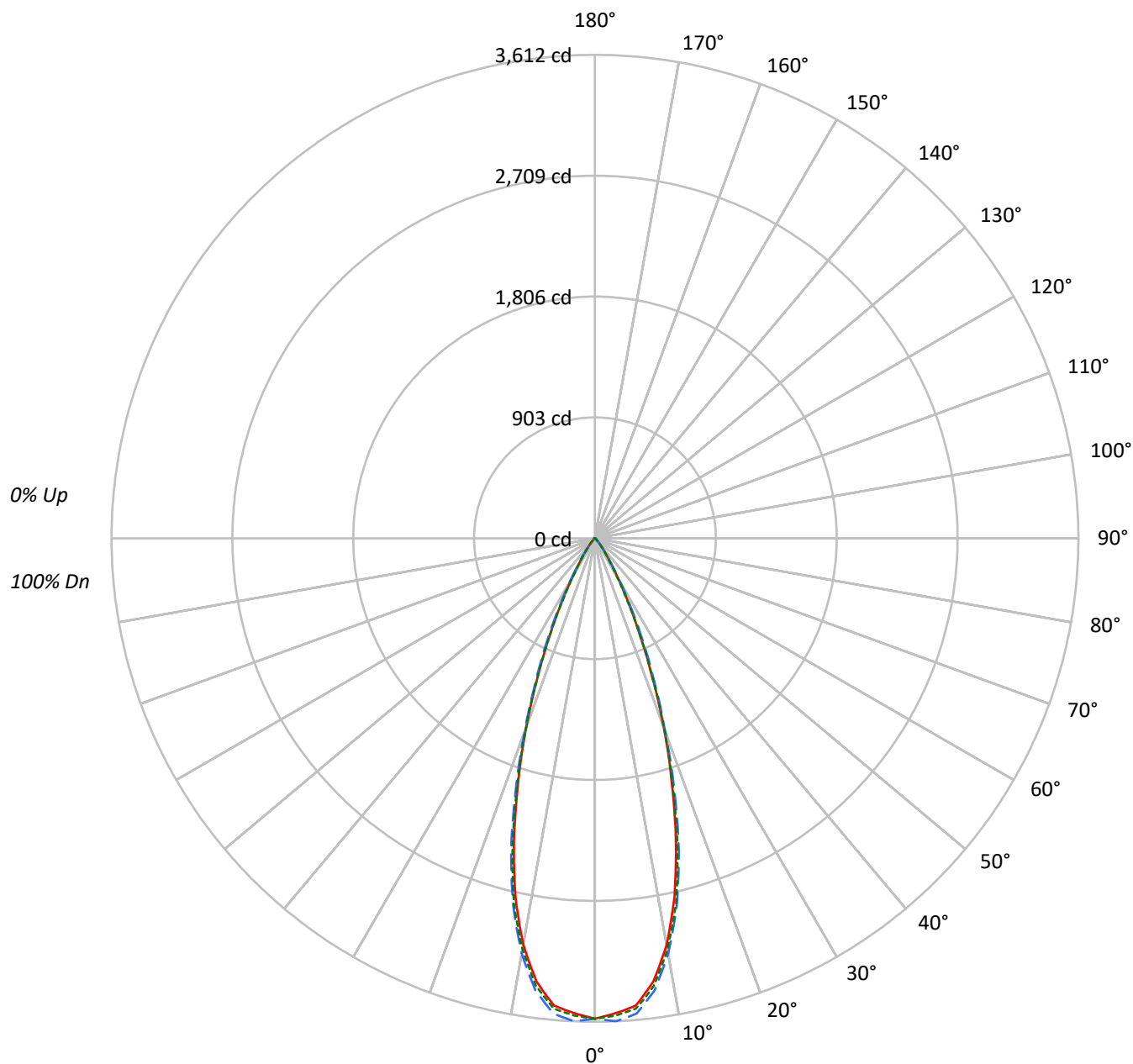
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1390378	1390378	1390378
5°	1362911	1386319	1371504
10°	1212846	1238884	1226258
15°	937080	970885	953963
20°	618143	631416	621481
25°	337210	360374	338919
30°	151758	167905	145452
35°	65491	67383	59817
40°	27406	28417	25383
45°	11011	12106	12106
50°	4821	6026	6026
55°	2701	2701	4052
60°	1549	1549	1549
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°	324.4	22.0
10°-20°	645.9	43.8
20°-30°	381.5	25.9
30°-40°	99.3	6.7
40°-50°	19.6	1.3
50°-60°	4.3	0.3
60°-70°	0.4	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°	1351.8	91.6
0°-40°	1451.1	98.4
0°-60°	1475.0	100.0
0°-90°	1475.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3590	3590	3590	3590	3590	
5°	3505	3533	3565	3541	3527	321
15°	2337	2389	2421	2385	2379	634
25°	789	815	843	811	793	372
35°	138	144	142	140	126	97
45°	20	24	22	22	22	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°	3589.5	3589.5	3589.5	3589.5	3589.5
2.5°	3551.4	3587.5	3611.6	3591.5	3569.4
5°	3505.2	3533.3	3565.4	3541.3	3527.3
7.5°	3340.6	3382.7	3406.8	3394.8	3372.7
10°	3083.6	3115.7	3149.8	3137.8	3117.7
12.5°	2744.3	2788.5	2820.6	2792.5	2796.5
15°	2336.8	2389.0	2421.1	2385.0	2378.9
17.5°	1905.2	1945.3	1967.4	1945.3	1929.3
20°	1499.6	1523.7	1531.8	1521.7	1507.7
22.5°	1108.2	1134.3	1158.4	1134.3	1116.2
25°	789.0	815.1	843.2	811.0	793.0
27.5°	532.0	548.1	572.2	542.0	515.9
30°	339.3	357.3	375.4	353.3	325.2
32.5°	214.8	226.9	228.9	224.8	200.8
35°	138.5	144.5	142.5	140.5	126.5
37.5°	88.3	88.3	90.3	88.3	80.3
40°	54.2	58.2	56.2	54.2	50.2
42.5°	32.1	36.1	34.1	34.1	32.1
45°	20.1	24.1	22.1	22.1	22.1
47.5°	14.1	16.1	14.1	14.1	16.1
50°	8.0	10.0	10.0	10.0	10.0
52.5°	6.0	6.0	6.0	6.0	8.0
55°	4.0	4.0	4.0	4.0	6.0
57.5°	4.0	4.0	2.0	2.0	4.0
60°	2.0	2.0	2.0	2.0	2.0
62.5°	2.0	0.0	0.0	0.0	2.0
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)