

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: P225264

Luminaire Tested: **LD2B20D010 EU2B20FL408035 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225264
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 EU2B20FL408035 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: 1640.1 lumens
Efficiency: N/A
Efficacy: 78.5 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

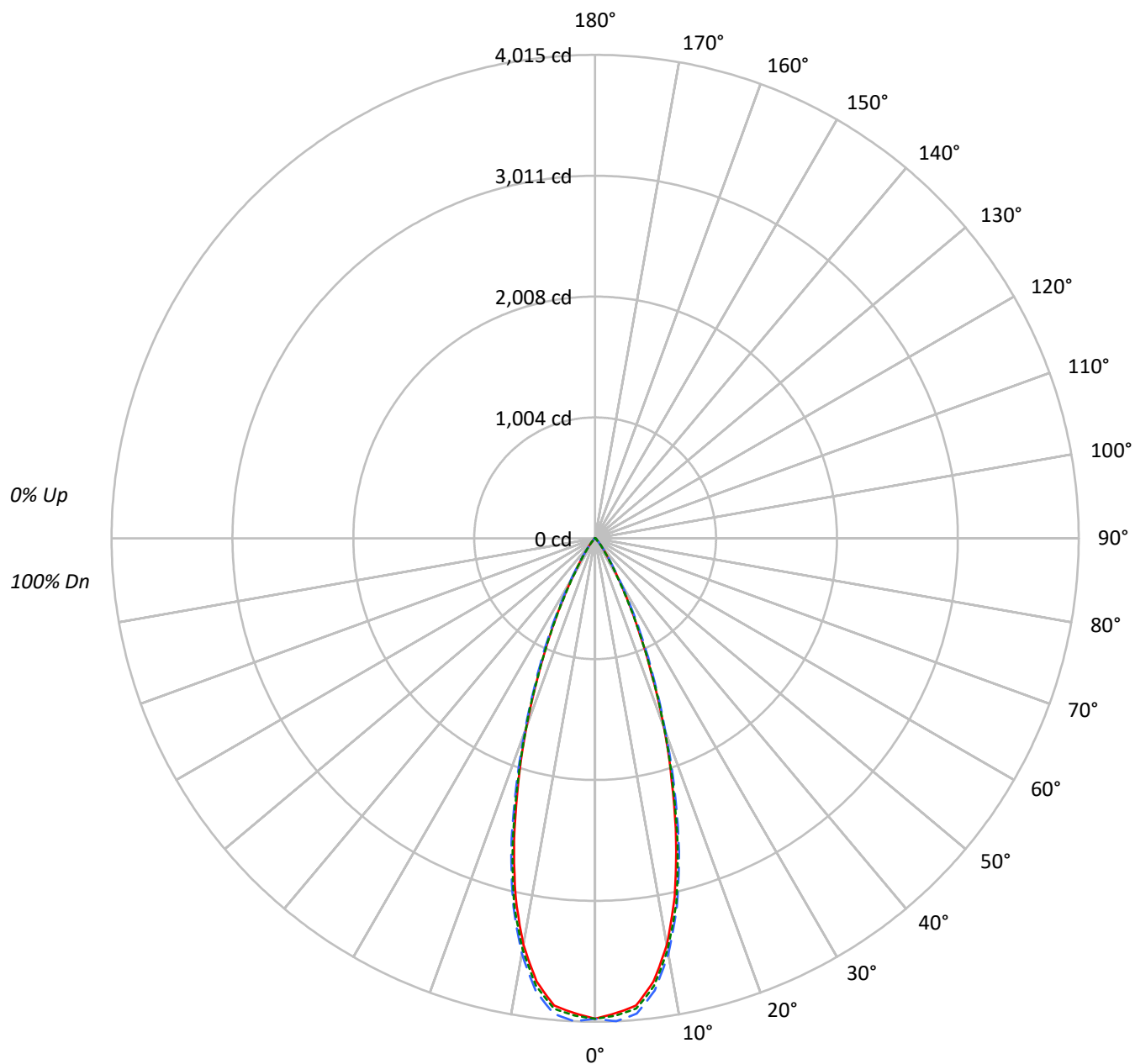
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
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°	1545588	1545588	1545588
5°	1515059	1541071	1524585
10°	1348227	1377215	1363173
15°	1041664	1079279	1060471
20°	687146	701903	690856
25°	374820	400592	376743
30°	168665	186645	161688
35°	72821	74901	66484
40°	30490	31603	28215
45°	12216	13421	13421
50°	5363	6749	6749
55°	3039	3039	4525
60°	1704	1704	1704
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°	360.7	22.0
10°-20°	718.0	43.8
20°-30°	424.1	25.9
30°-40°	110.4	6.7
40°-50°	21.8	1.3
50°-60°	4.8	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°	1502.7	91.6
0°-40°	1613.1	98.4
0°-60°	1639.7	100.0
0°-90°	1640.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3990	3990	3990	3990	3990	
5°	3896	3928	3963	3937	3921	357
15°	2598	2656	2691	2651	2644	705
25°	877	906	937	902	882	413
35°	154	161	158	156	141	108
45°	22	27	24	24	24	20
55°	4	4	4	4	7	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°	3990.2	3990.2	3990.2	3990.2	3990.2
2.5°	3947.8	3988.0	4014.7	3992.4	3967.9
5°	3896.5	3927.7	3963.4	3936.6	3921.0
7.5°	3713.5	3760.3	3787.1	3773.7	3749.2
10°	3427.8	3463.5	3501.5	3488.1	3465.8
12.5°	3050.7	3099.8	3135.5	3104.2	3108.7
15°	2597.6	2655.7	2691.4	2651.2	2644.5
17.5°	2117.8	2162.5	2187.0	2162.5	2144.6
20°	1667.0	1693.8	1702.8	1691.6	1676.0
22.5°	1231.9	1260.9	1287.7	1260.9	1240.8
25°	877.0	906.1	937.3	901.6	881.5
27.5°	591.4	609.2	636.0	602.5	573.5
30°	377.1	397.2	417.3	392.8	361.5
32.5°	238.8	252.2	254.4	249.9	223.2
35°	154.0	160.7	158.4	156.2	140.6
37.5°	98.2	98.2	100.4	98.2	89.3
40°	60.3	64.7	62.5	60.3	55.8
42.5°	35.7	40.2	37.9	37.9	35.7
45°	22.3	26.8	24.5	24.5	24.5
47.5°	15.6	17.9	15.6	15.6	17.9
50°	8.9	11.2	11.2	11.2	11.2
52.5°	6.7	6.7	6.7	6.7	8.9
55°	4.5	4.5	4.5	4.5	6.7
57.5°	4.5	4.5	2.2	2.2	4.5
60°	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	0.0	0.0	0.0	2.2
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)