

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: P225239

Luminaire Tested: **LD2B20D010 EU2B20FL409730 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225239
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 EU2B20FL409730 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: 1201.6 lumens
Efficiency: N/A
Efficacy: 57.5 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

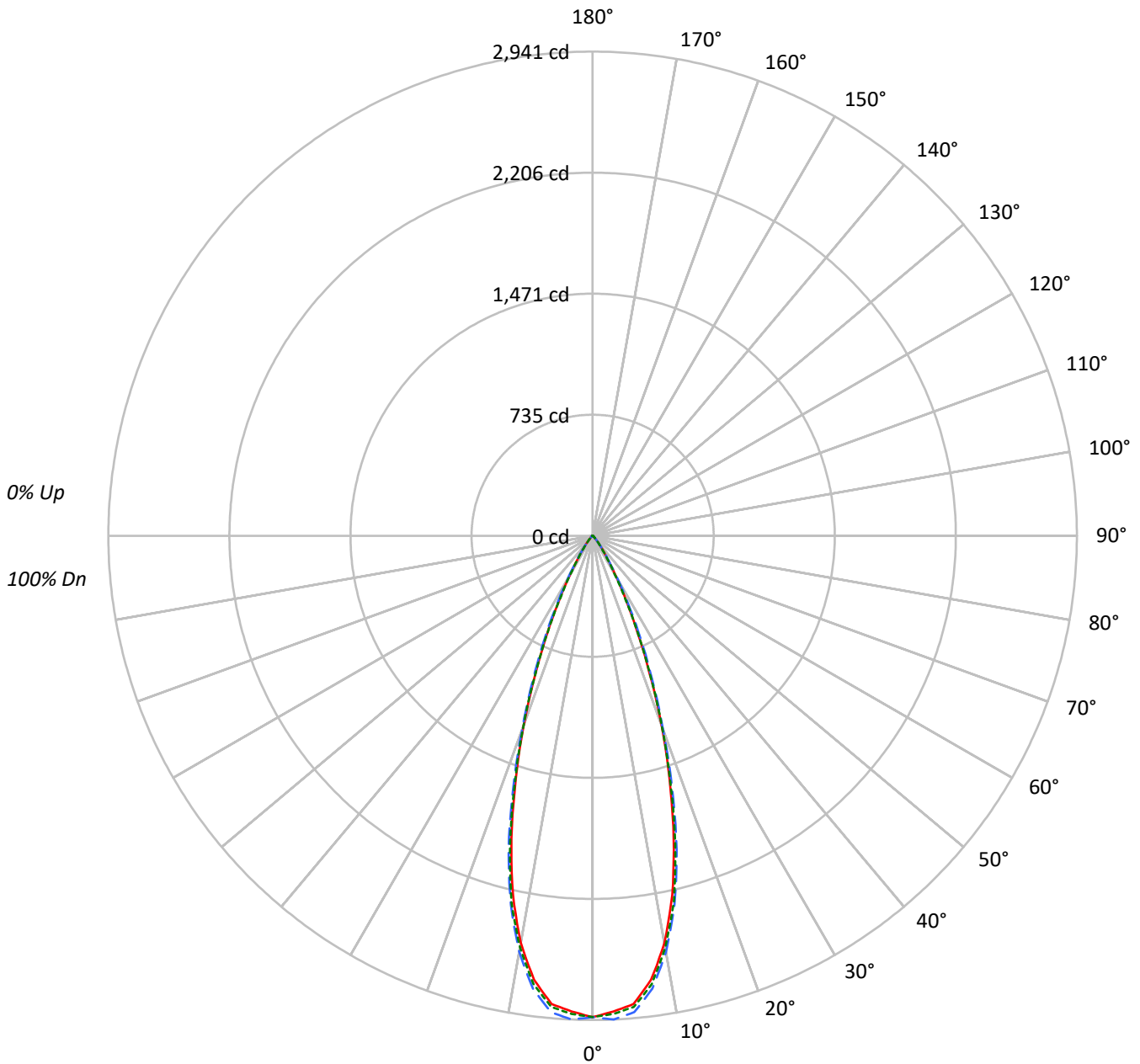
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1132367	1132367	1132367
5°	1109980	1129072	1116979
10°	987787	1008987	998682
15°	763162	790712	776957
20°	503426	514226	506147
25°	274640	293488	276008
30°	123580	136730	118481
35°	53339	54899	48705
40°	22299	23159	20681
45°	8929	9860	9860
50°	3917	4941	4941
55°	2229	2229	3309
60°	1240	1240	1240
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°	264.2	22.0
10°-20°	526.0	43.8
20°-30°	310.7	25.9
30°-40°	80.9	6.7
40°-50°	16.0	1.3
50°-60°	3.5	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°	1100.9	91.6
0°-40°	1181.8	98.4
0°-60°	1201.3	100.0
0°-90°	1201.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2923	2923	2923	2923	2923	
5°	2855	2878	2904	2884	2873	261
15°	1903	1946	1972	1942	1938	516
25°	643	664	687	660	646	303
35°	113	118	116	114	103	79
45°	16	20	18	18	18	15
55°	3	3	3	3	5	3
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°	2923.4	2923.4	2923.4	2923.4	2923.4
2.5°	2892.3	2921.7	2941.4	2925.0	2907.0
5°	2854.7	2877.6	2903.8	2884.1	2872.7
7.5°	2720.6	2755.0	2774.6	2764.8	2746.8
10°	2511.4	2537.5	2565.3	2555.5	2539.1
12.5°	2235.0	2271.0	2297.2	2274.3	2277.5
15°	1903.1	1945.6	1971.8	1942.4	1937.5
17.5°	1551.6	1584.3	1602.3	1584.3	1571.2
20°	1221.3	1241.0	1247.5	1239.3	1227.9
22.5°	902.5	923.8	943.4	923.8	909.1
25°	642.6	663.8	686.7	660.5	645.8
27.5°	433.3	446.4	466.0	441.4	420.2
30°	276.3	291.0	305.7	287.8	264.9
32.5°	174.9	184.8	186.4	183.1	163.5
35°	112.8	117.7	116.1	114.4	103.0
37.5°	71.9	71.9	73.6	71.9	65.4
40°	44.1	47.4	45.8	44.1	40.9
42.5°	26.2	29.4	27.8	27.8	26.2
45°	16.3	19.6	18.0	18.0	18.0
47.5°	11.4	13.1	11.4	11.4	13.1
50°	6.5	8.2	8.2	8.2	8.2
52.5°	4.9	4.9	4.9	4.9	6.5
55°	3.3	3.3	3.3	3.3	4.9
57.5°	3.3	3.3	1.6	1.6	3.3
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
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)