

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: P225277

Luminaire Tested: **LD2B20D010 EU2B20FL409730 2LBDC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409730 2LBDC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1380.9 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

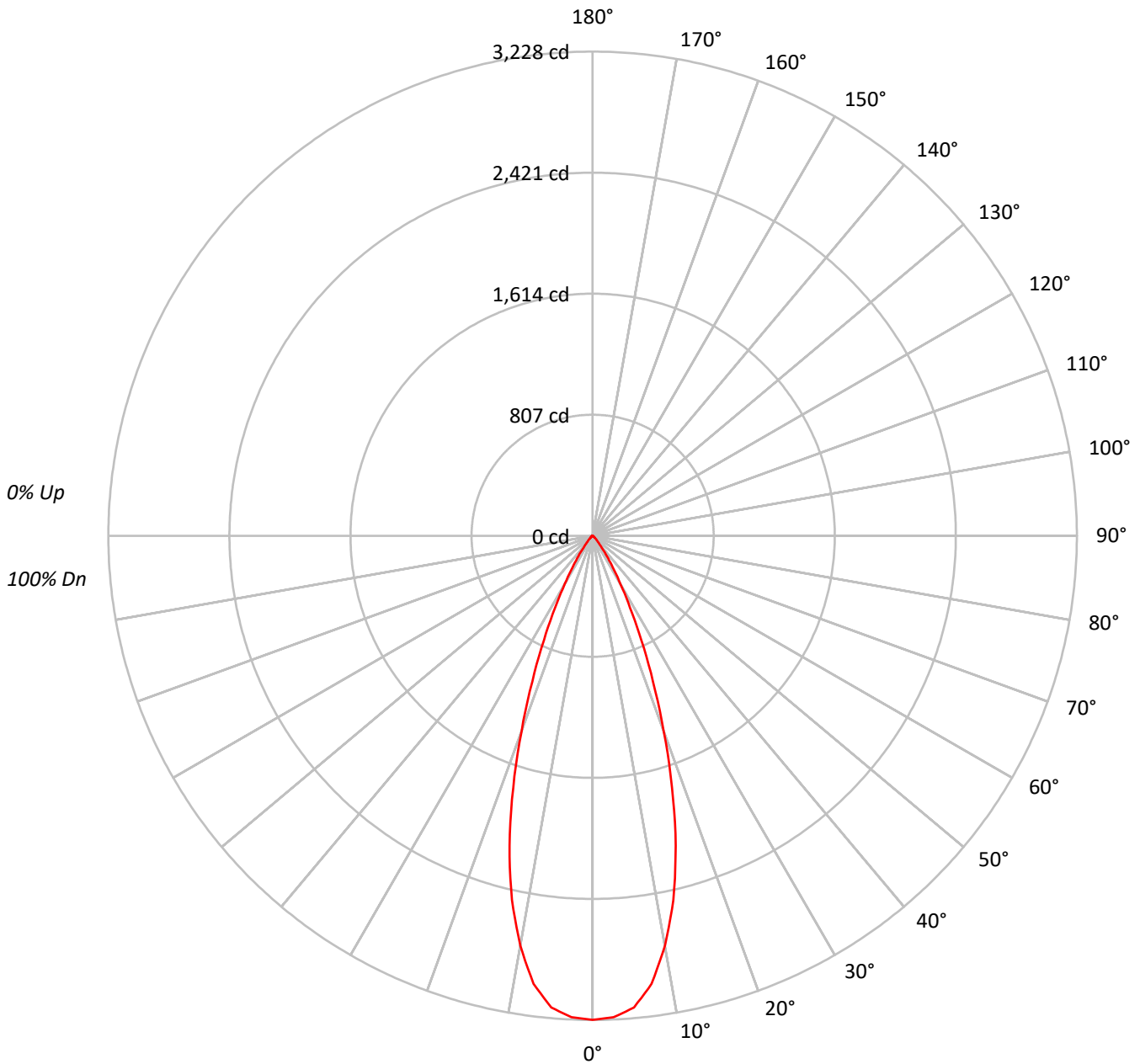
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225277

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P225277

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDC*MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			79
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1250159
5°	1227367
10°	1091074
15°	858081
20°	570986
25°	327807
30°	165579
35°	77880
40°	31350
45°	15502
50°	8557
55°	6010
60°	5500
65°	3208
70°	3964
75°	2694
80°	4015
85°	0



TEST NUMBER: P225277

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	20.9
10°-20°	579.6	42.0
20°-30°	360.6	26.1
30°-40°	110.9	8.0
40°-50°	24.4	1.8
50°-60°	8.7	0.6
60°-70°	4.3	0.3
70°-80°	2.6	0.2
80°-90°	0.7	0.1
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°	1229.3	89.0
0°-40°	1340.2	97.1
0°-60°	1373.2	99.4
0°-90°	1380.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3228	
5°	3157	289
15°	2140	580
25°	767	361
35°	165	111
45°	28	24
55°	9	9
65°	4	4
75°	2	3
85°	0	1
90°	0	



TEST NUMBER: P225277

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	3227.5
2.5°	3213.3
5°	3156.6
7.5°	3013.1
10°	2774.0
12.5°	2487.0
15°	2139.8
17.5°	1760.8
20°	1385.2
22.5°	1050.4
25°	767.0
27.5°	540.3
30°	370.2
32.5°	249.8
35°	164.7
37.5°	99.2
40°	62.0
42.5°	42.5
45°	28.3
47.5°	19.5
50°	14.2
52.5°	12.4
55°	8.9
57.5°	7.1
60°	7.1
62.5°	5.3
65°	3.5
67.5°	3.5
70°	3.5
72.5°	3.5
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)