

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: P225334

Luminaire Tested: **LD2B20D010 EU2B20FL409727 2LBDC**MW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225334
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 EU2B20FL409727 2LBDC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1128.8 lumens
Efficiency: N/A
Efficacy: 54.0 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

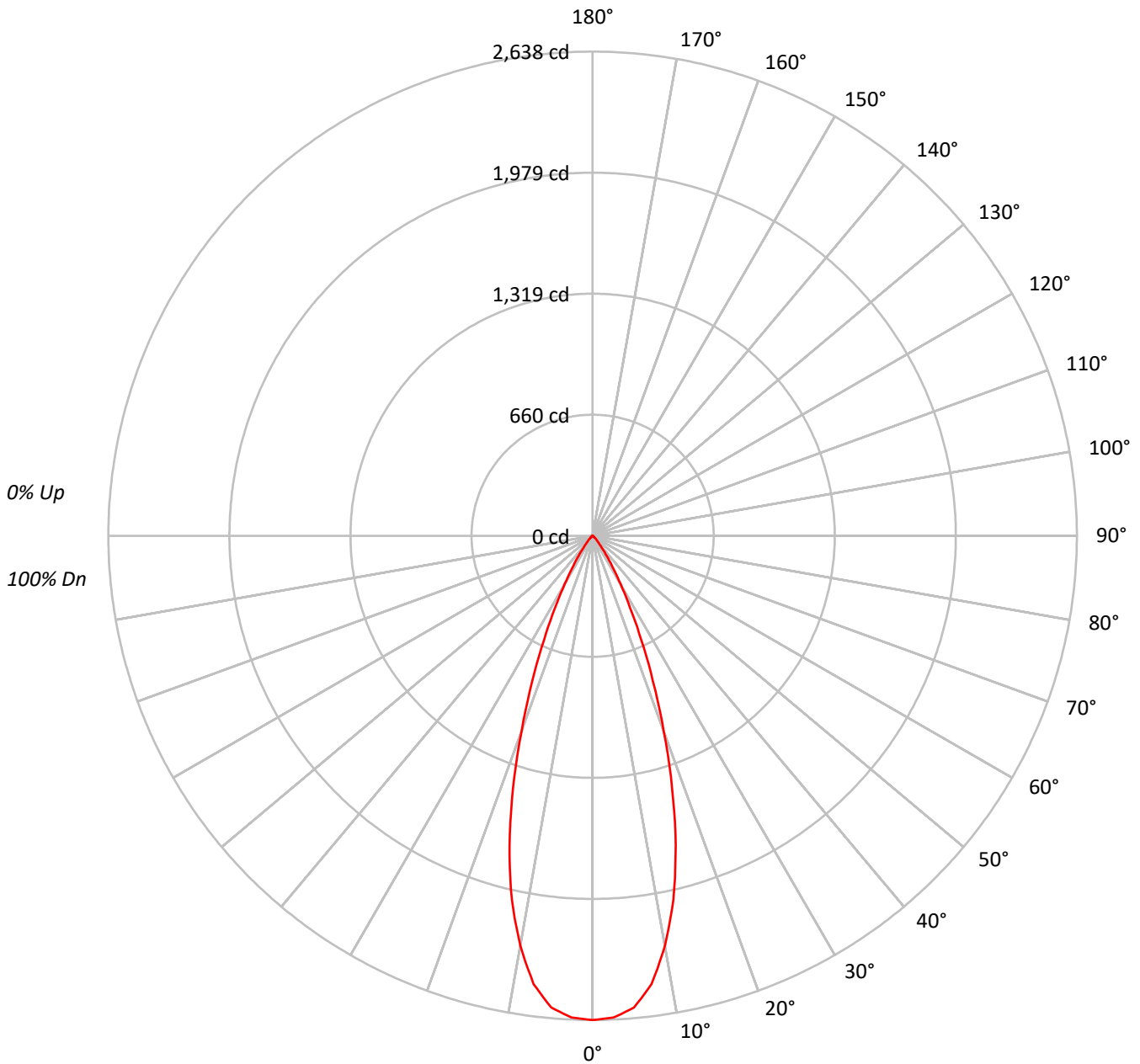
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	87	82	78	93	86	81	78	84	80	77	83	80	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°	1022012
5°	1003403
10°	891974
15°	701487
20°	466781
25°	267973
30°	135388
35°	63695
40°	25636
45°	12709
50°	6990
55°	4862
60°	4493
65°	2658
70°	3284
75°	2095
80°	3123
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	20.9
10°-20°	473.9	42.0
20°-30°	294.8	26.1
30°-40°	90.6	8.0
40°-50°	19.9	1.8
50°-60°	7.1	0.6
60°-70°	3.6	0.3
70°-80°	2.1	0.2
80°-90°	0.6	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°	1005.0	89.0
0°-40°	1095.6	97.1
0°-60°	1122.6	99.5
0°-90°	1128.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2638	
5°	2581	236
15°	1749	474
25°	627	295
35°	135	91
45°	23	20
55°	7	7
65°	3	4
75°	1	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2638.5
2.5°	2626.9
5°	2580.6
7.5°	2463.3
10°	2267.8
12.5°	2033.2
15°	1749.3
17.5°	1439.4
20°	1132.4
22.5°	858.7
25°	627.0
27.5°	441.7
30°	302.7
32.5°	204.2
35°	134.7
37.5°	81.1
40°	50.7
42.5°	34.8
45°	23.2
47.5°	15.9
50°	11.6
52.5°	10.1
55°	7.2
57.5°	5.8
60°	5.8
62.5°	4.3
65°	2.9
67.5°	2.9
70°	2.9
72.5°	2.9
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)