

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: P#

Luminaire Tested: **LD2B20D010 EU2B20WFL558027 2LBDL*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14810)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20WFL558027 2LBDL*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1603.8 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

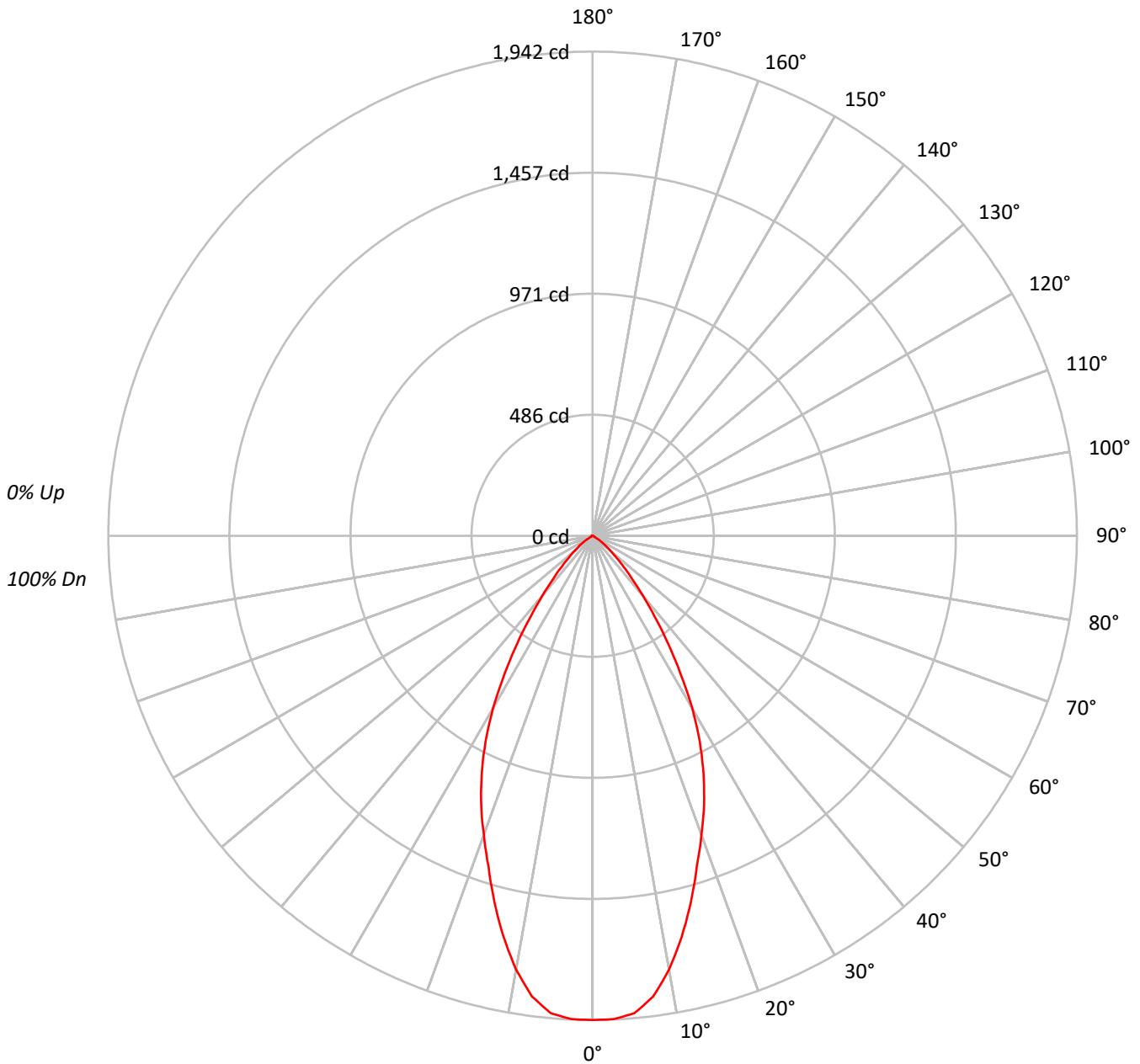
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56			
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	752342
5°	747517
10°	694960
15°	610097
20°	525891
25°	449699
30°	356876
35°	248773
40°	157407
45°	96082
50°	56825
55°	31065
60°	6817
65°	6049
70°	4983
75°	6585
80°	4907
85°	9777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	11.1
10°-20°	423.7	26.4
20°-30°	478.0	29.8
30°-40°	330.7	20.6
40°-50°	141.0	8.8
50°-60°	40.8	2.5
60°-70°	6.0	0.4
70°-80°	3.8	0.2
80°-90°	1.5	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°	1080.2	67.3
0°-40°	1410.8	88.0
0°-60°	1592.6	99.3
0°-90°	1603.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1942	
5°	1922	178
15°	1521	424
25°	1052	478
35°	526	331
45°	175	141
55°	46	41
65°	7	6
75°	4	4
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1942.3
2.5°	1940.1
5°	1922.5
7.5°	1863.3
10°	1766.9
12.5°	1648.5
15°	1521.4
17.5°	1389.8
20°	1275.8
22.5°	1168.4
25°	1052.2
27.5°	929.5
30°	797.9
32.5°	655.5
35°	526.1
37.5°	407.7
40°	311.3
42.5°	234.6
45°	175.4
47.5°	127.1
50°	94.3
52.5°	68.0
55°	46.0
57.5°	19.7
60°	8.8
62.5°	6.6
65°	6.6
67.5°	4.4
70°	4.4
72.5°	4.4
75°	4.4
77.5°	2.2
80°	2.2
82.5°	2.2
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)