

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: P224744

Luminaire Tested: **LD2B20D010 EU2B20FL409027 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224744
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 EU2B20FL409027 2LBD***MW**
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1431.8 lumens
Efficiency: N/A
Efficacy: 68.5 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

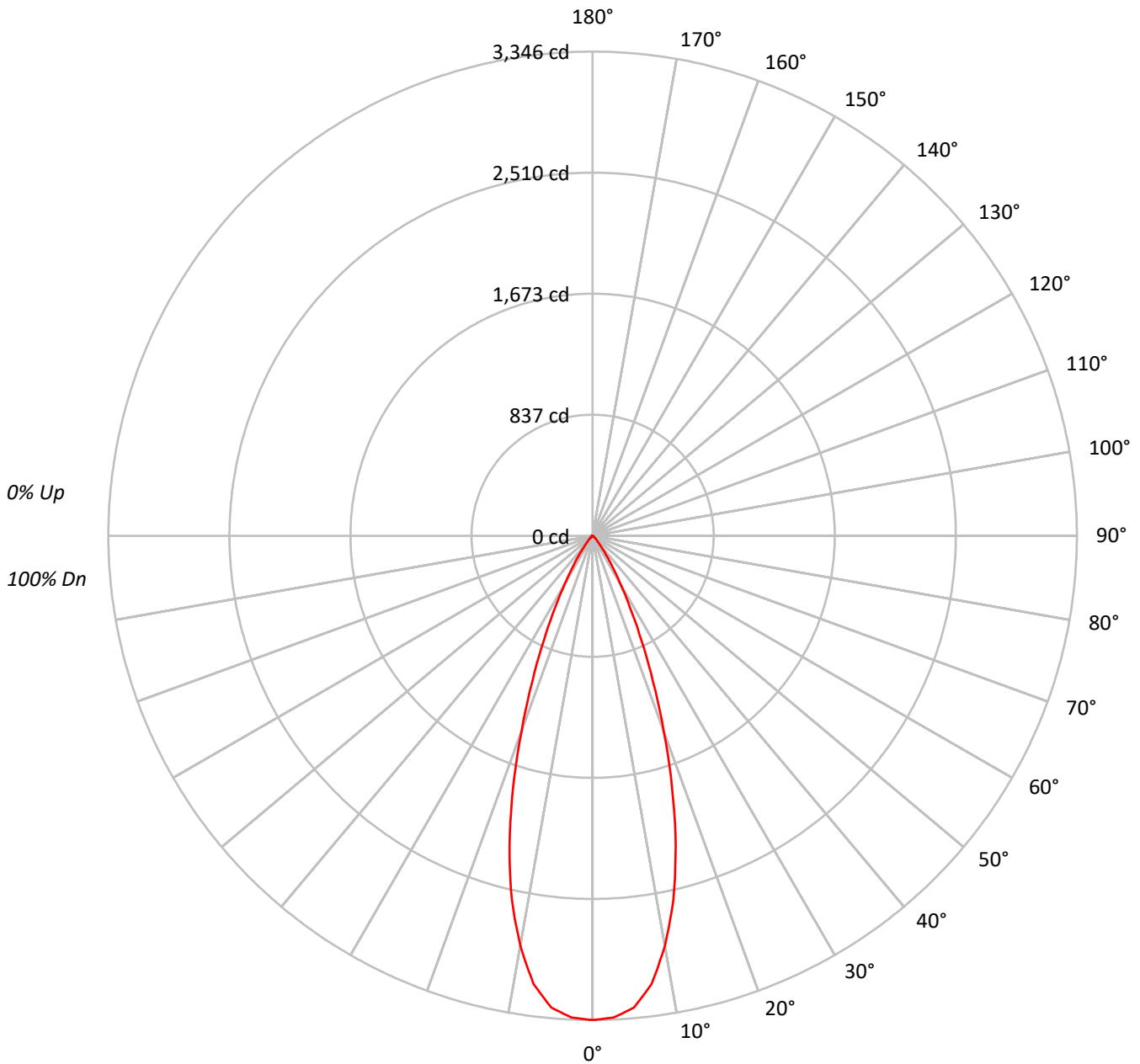
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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°	1296215
5°	1272626
10°	1131271
15°	889721
20°	592050
25°	339902
30°	171706
35°	80765
40°	32513
45°	16105
50°	8858
55°	6213
60°	5655
65°	3391
70°	4190
75°	2694
80°	4015
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.8	20.9
10°-20°	601.0	42.0
20°-30°	373.9	26.1
30°-40°	115.0	8.0
40°-50°	25.3	1.8
50°-60°	9.0	0.6
60°-70°	4.5	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°	1274.7	89.0
0°-40°	1389.6	97.1
0°-60°	1423.9	99.4
0°-90°	1431.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1431.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3346	
5°	3273	300
15°	2219	601
25°	795	374
35°	171	115
45°	29	25
55°	9	9
65°	4	5
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3346.4
2.5°	3331.7
5°	3273.0
7.5°	3124.2
10°	2876.2
12.5°	2578.7
15°	2218.7
17.5°	1825.7
20°	1436.3
22.5°	1089.1
25°	795.3
27.5°	560.2
30°	383.9
32.5°	259.0
35°	170.8
37.5°	102.9
40°	64.3
42.5°	44.1
45°	29.4
47.5°	20.2
50°	14.7
52.5°	12.9
55°	9.2
57.5°	7.3
60°	7.3
62.5°	5.5
65°	3.7
67.5°	3.7
70°	3.7
72.5°	3.7
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)