

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: P224791

Luminaire Tested: **LD2B20D010 EU2B20FL409050 2LBDL**MW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224791
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 EU2B20FL409050 2LBDL*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1528.7 lumens
Efficiency: N/A
Efficacy: 73.1 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

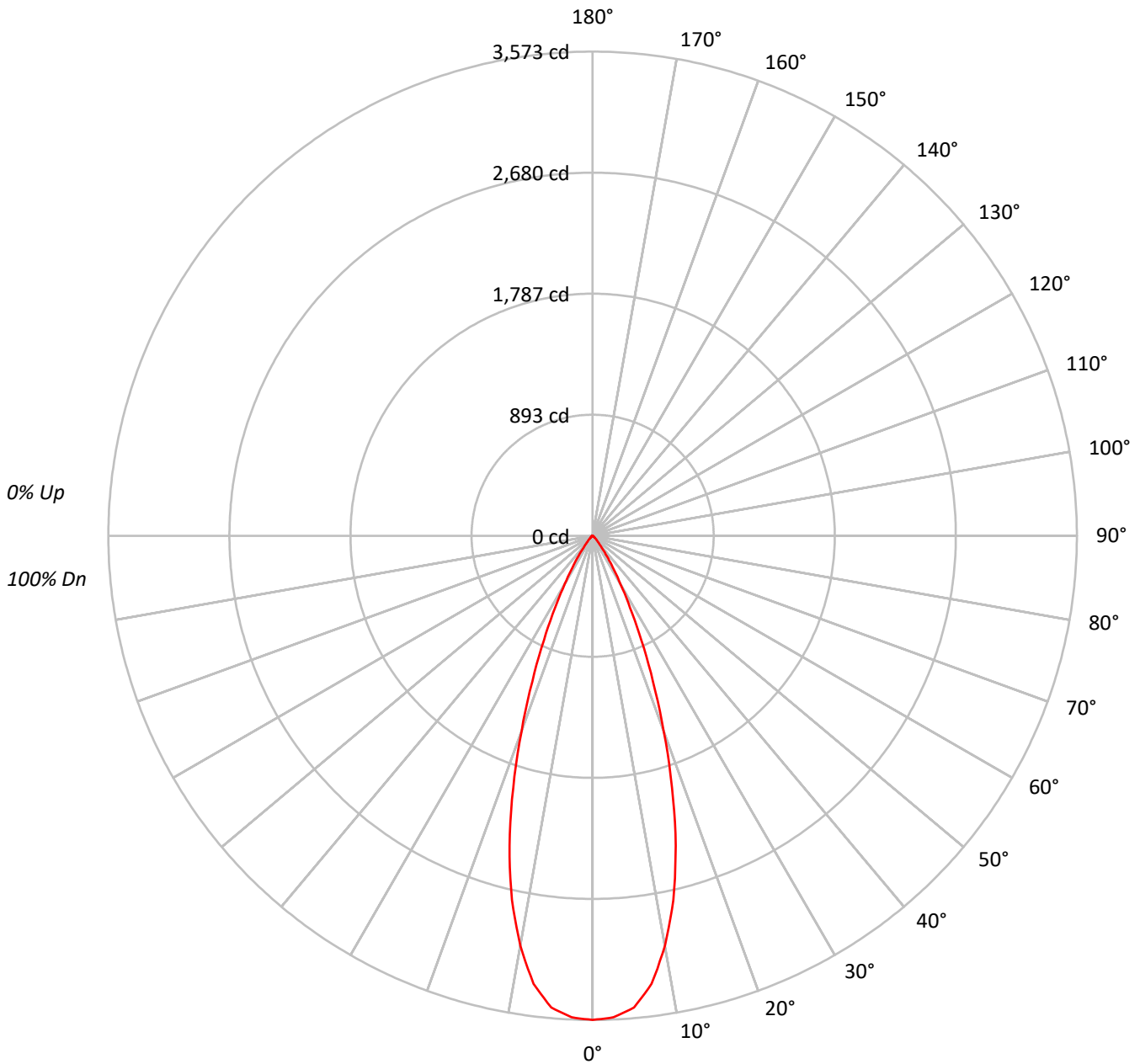
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91		
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86		
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82		
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79		
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75		
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72		
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69		
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66		
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1383948
5°	1358751
10°	1207851
15°	949953
20°	632116
25°	362896
30°	183291
35°	86250
40°	34687
45°	17201
50°	9461
55°	6618
60°	6043
65°	3575
70°	4417
75°	2993
80°	4461
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	20.9
10°-20°	641.7	42.0
20°-30°	399.2	26.1
30°-40°	122.7	8.0
40°-50°	27.0	1.8
50°-60°	9.6	0.6
60°-70°	4.8	0.3
70°-80°	2.9	0.2
80°-90°	0.8	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°	1360.9	89.0
0°-40°	1483.7	97.1
0°-60°	1520.2	99.4
0°-90°	1528.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3573	
5°	3494	320
15°	2369	642
25°	849	399
35°	182	123
45°	31	27
55°	10	10
65°	4	5
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3572.9
2.5°	3557.2
5°	3494.5
7.5°	3335.6
10°	3070.9
12.5°	2753.2
15°	2368.9
17.5°	1949.2
20°	1533.5
22.5°	1162.9
25°	849.1
27.5°	598.1
30°	409.8
32.5°	276.5
35°	182.4
37.5°	109.8
40°	68.6
42.5°	47.1
45°	31.4
47.5°	21.6
50°	15.7
52.5°	13.7
55°	9.8
57.5°	7.8
60°	7.8
62.5°	5.9
65°	3.9
67.5°	3.9
70°	3.9
72.5°	3.9
75°	2.0
77.5°	2.0
80°	2.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)