

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: P225154

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBD*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408040 2LBD*GPH
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1976.9 lumens
Efficiency: N/A
Efficacy: 94.6 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

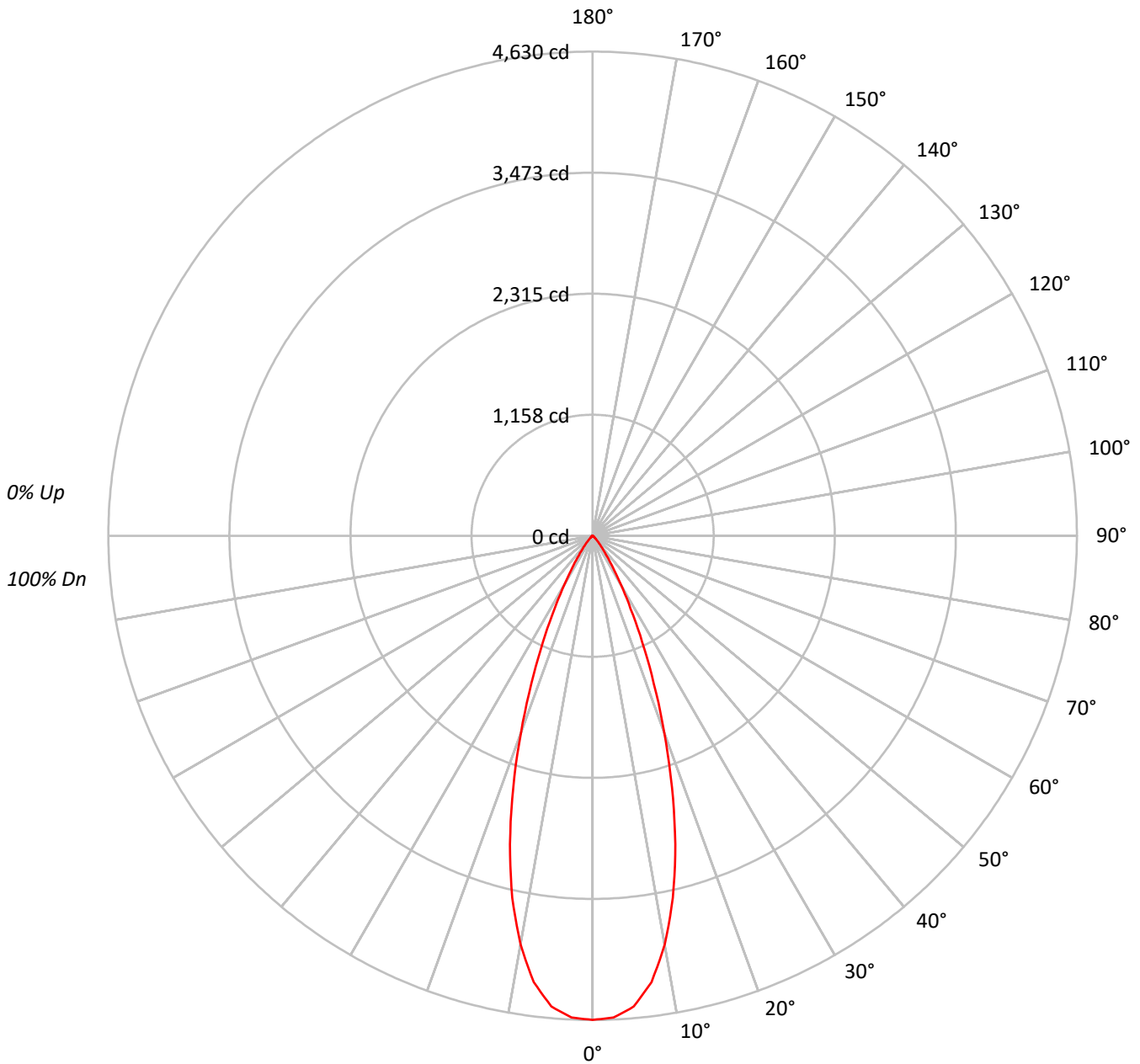
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1793373
5°	1757103
10°	1561329
15°	1224965
20°	823833
25°	479360
30°	240094
35°	112021
40°	52233
45°	22076
50°	10606
55°	6821
60°	3873
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.7	20.9
10°-20°	829.2	41.9
20°-30°	524.3	26.5
30°-40°	163.1	8.3
40°-50°	36.2	1.8
50°-60°	9.2	0.5
60°-70°	1.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1767.1	89.4
0°-40°	1930.2	97.6
0°-60°	1975.7	99.9
0°-90°	1976.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4630	
5°	4519	414
15°	3055	829
25°	1122	524
35°	237	163
45°	40	36
55°	10	9
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4629.9
2.5°	4609.7
5°	4519.0
7.5°	4304.8
10°	3969.6
12.5°	3546.1
15°	3054.7
17.5°	2522.9
20°	1998.6
22.5°	1527.3
25°	1121.6
27.5°	786.4
30°	536.8
32.5°	355.4
35°	236.9
37.5°	158.8
40°	103.3
42.5°	63.0
45°	40.3
47.5°	27.7
50°	17.6
52.5°	12.6
55°	10.1
57.5°	7.6
60°	5.0
62.5°	2.5
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)