

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: P224411

Luminaire Tested: **LD2B20D010 EU2B20FL409024 2LBDSQC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224411
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 EU2B20FL409024 2LBDSQC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1333.8 lumens
Efficiency: N/A
Efficacy: 63.8 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

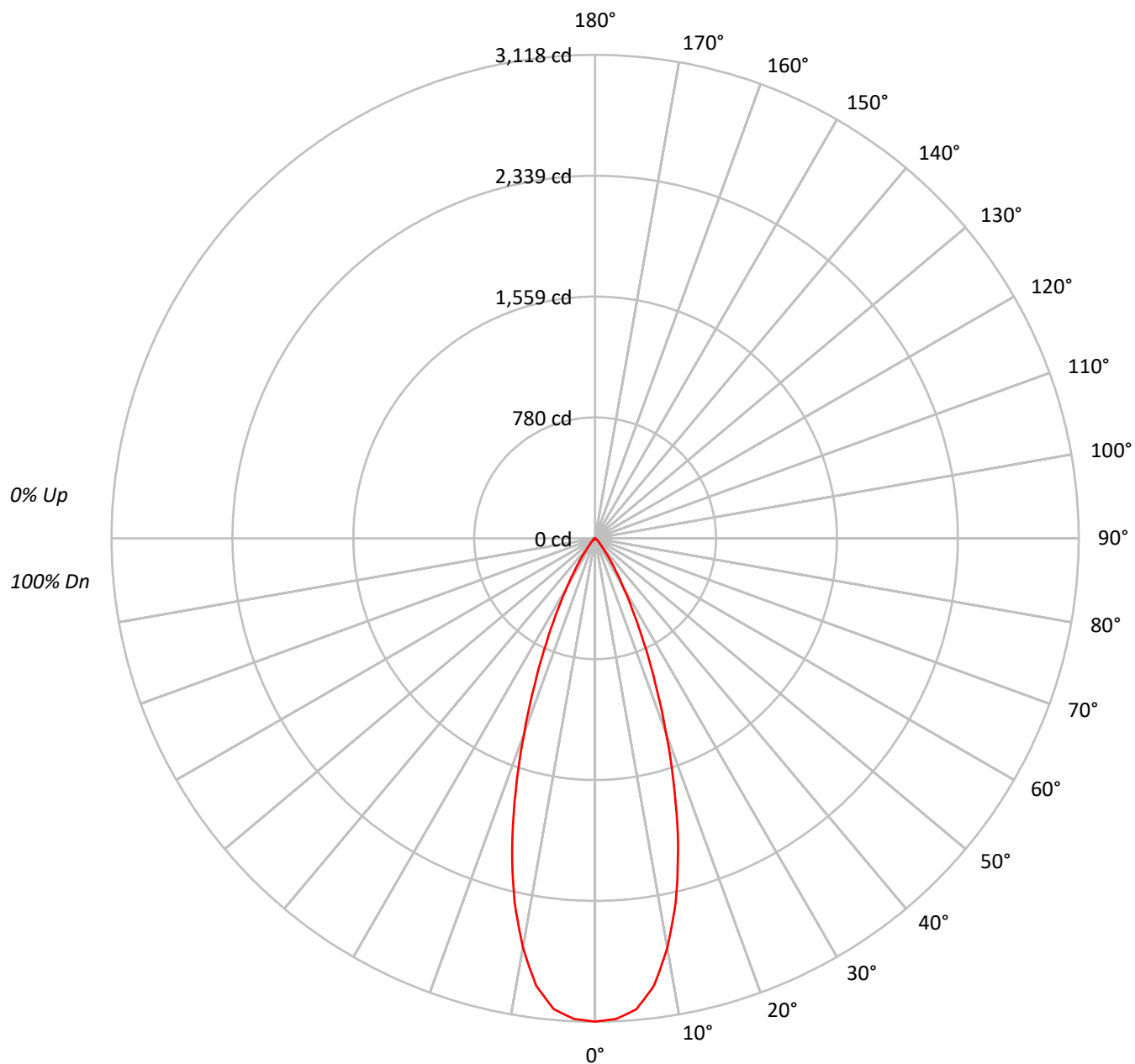
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	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			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	110	106	102	99		108	104	101	98		101	98	96			98	96	94			91
3	105	100	96	93		104	99	95	92		96	93	90			94	91	89			86
4	101	95	90	87		100	94	90	86		92	88	85			90	87	85			82
5	98	91	86	82		96	90	85	82		88	84	81			86	83	80			79
6	94	87	82	78		93	86	81	78		84	80	77			83	80	77			75
7	90	83	78	74		89	82	77	74		81	77	74			80	76	73			72
8	87	79	74	71		86	79	74	71		78	74	71			77	73	70			69
9	84	76	71	68		83	76	71	68		75	71	68			74	70	67			66
10	81	73	68	65		80	73	68	65		72	68	65			71	68	65			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1207551
5°	1185568
10°	1053905
15°	828848
20°	551530
25°	316653
30°	159943
35°	75232
40°	30288
45°	15009
50°	8256
55°	5808
60°	5268
65°	3116
70°	3851
75°	2544
80°	3792
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	20.9
10°-20°	559.9	42.0
20°-30°	348.3	26.1
30°-40°	107.1	8.0
40°-50°	23.5	1.8
50°-60°	8.4	0.6
60°-70°	4.2	0.3
70°-80°	2.5	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°	1187.5	89.0
0°-40°	1294.6	97.1
0°-60°	1326.5	99.4
0°-90°	1333.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3118	
5°	3049	279
15°	2067	560
25°	741	348
35°	159	107
45°	27	24
55°	9	8
65°	3	4
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3117.5
2.5°	3103.8
5°	3049.1
7.5°	2910.5
10°	2679.5
12.5°	2402.3
15°	2066.9
17.5°	1700.8
20°	1338.0
22.5°	1014.7
25°	740.9
27.5°	521.9
30°	357.6
32.5°	241.3
35°	159.1
37.5°	95.8
40°	59.9
42.5°	41.1
45°	27.4
47.5°	18.8
50°	13.7
52.5°	12.0
55°	8.6
57.5°	6.8
60°	6.8
62.5°	5.1
65°	3.4
67.5°	3.4
70°	3.4
72.5°	3.4
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)