

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: P224491

Luminaire Tested: **LD2B05D010 EU2B05FL409027 2LBDL*WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224491
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: LD2B05D010 EU2B05FL409027 2LBDL*WMH
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 569.2 lumens
Efficiency: N/A
Efficacy: 78.0 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

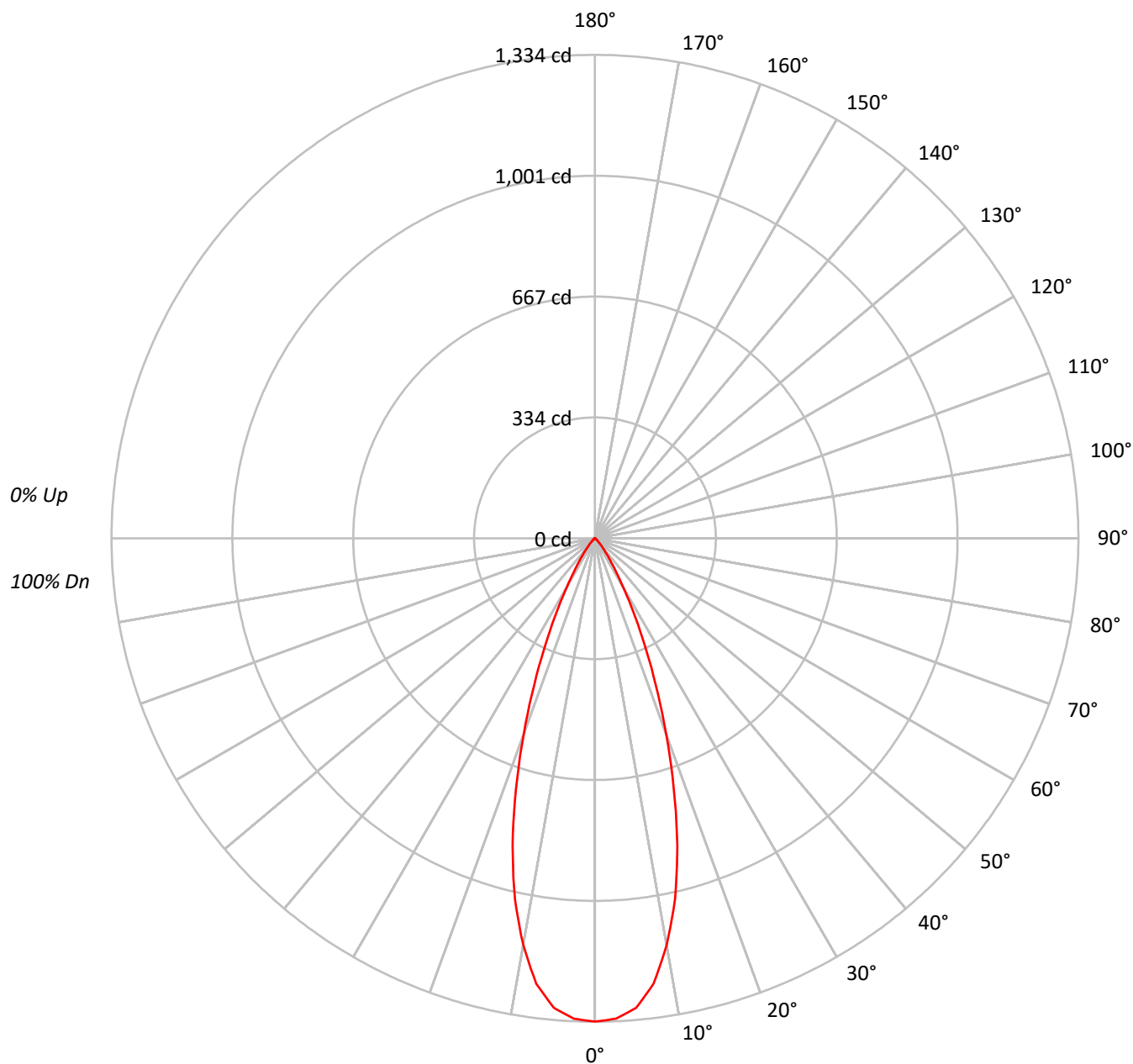
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			99
2	110	106	102	100		108	104	101	98		101	98	96			98	96	94			95
3	106	100	96	93		104	99	95	92		96	93	91			94	91	89			92
4	102	95	91	87		100	94	90	87		92	89	86			90	87	85			88
5	98	91	86	82		96	90	85	82		88	84	81			87	83	81			85
6	94	87	82	78		93	86	81	78		85	81	77			83	80	77			82
7	91	83	78	75		89	82	78	74		81	77	74			80	76	74			79
8	87	79	75	71		86	79	74	71		78	74	71			77	73	71			76
9	84	76	71	68		83	76	71	68		75	71	68			74	70	68			73
10	81	73	69	65		80	73	68	65		72	68	65			72	68	65			71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	516526
5°	505862
10°	448150
15°	352167
20°	236771
25°	137534
30°	68745
35°	32438
40°	15321
45°	6738
50°	3495
55°	1958
60°	1085
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	20.9
10°-20°	238.2	41.8
20°-30°	150.6	26.5
30°-40°	47.1	8.3
40°-50°	11.0	1.9
50°-60°	2.9	0.5
60°-70°	0.5	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°	507.8	89.2
0°-40°	554.9	97.5
0°-60°	568.7	99.9
0°-90°	569.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1334	
5°	1301	119
15°	878	238
25°	322	151
35°	69	47
45°	12	11
55°	3	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1333.5
2.5°	1327.0
5°	1301.0
7.5°	1239.7
10°	1139.4
12.5°	1020.3
15°	878.2
17.5°	723.0
20°	574.4
22.5°	437.3
25°	321.8
27.5°	227.3
30°	153.7
32.5°	102.5
35°	68.6
37.5°	46.2
40°	30.3
42.5°	18.8
45°	12.3
47.5°	8.7
50°	5.8
52.5°	4.3
55°	2.9
57.5°	2.2
60°	1.4
62.5°	1.4
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)