

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: P224207

Luminaire Tested: **LD2B05D010 EU2B05SP158027 2LBDSQLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05SP158027 2LBDSQLC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
LENSED SQUARE CAST TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 377.0 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

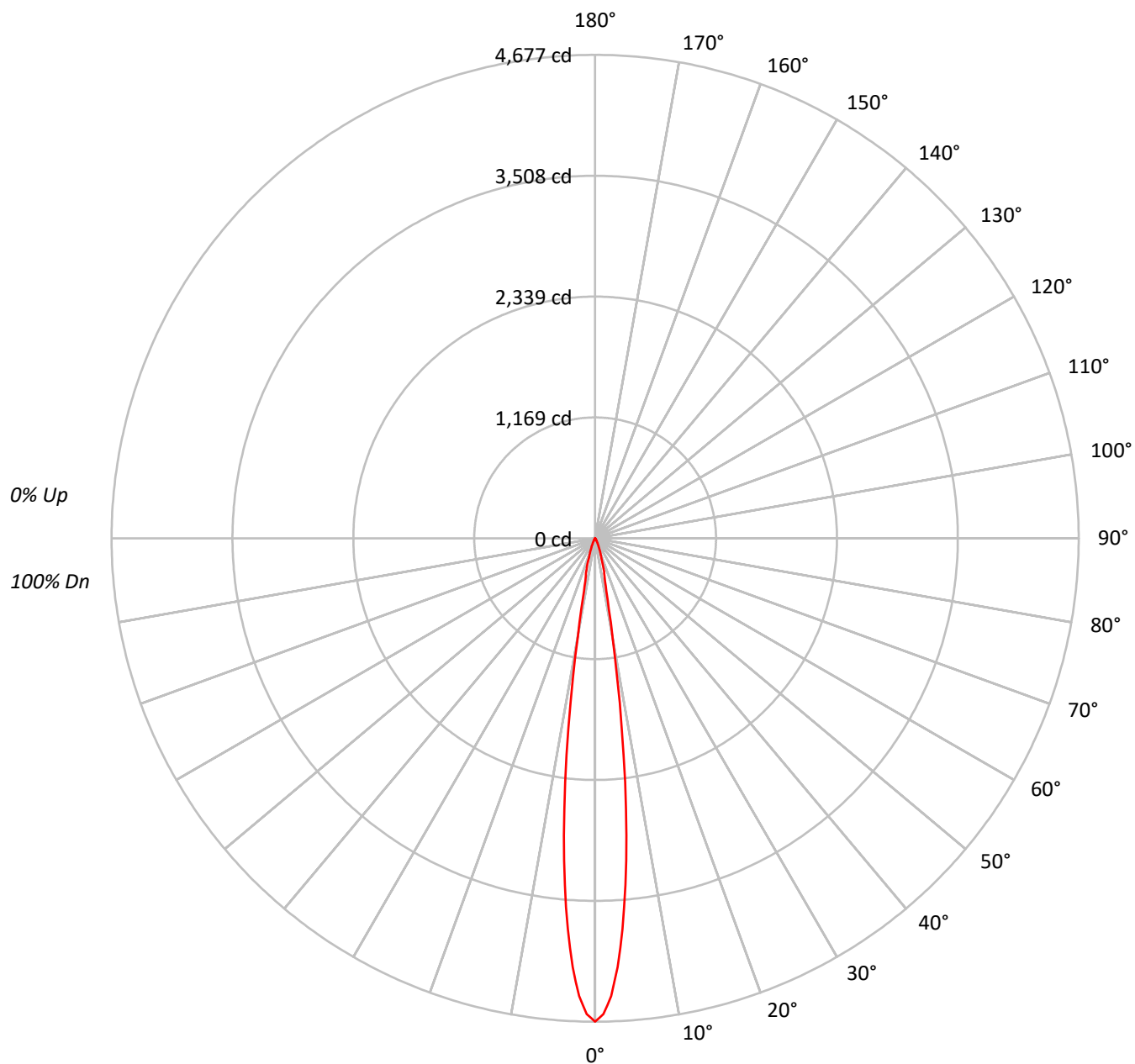
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	116	114	112	111	113	112	110	109		108	107	106			104	103	103			98
2	113	110	107	105	111	108	106	104		105	103	102			102	101	100			96
3	110	106	103	101	108	105	102	100		102	100	98			100	98	97			94
4	108	103	100	97	106	102	99	97		100	98	96			98	96	95			93
5	105	101	97	95	104	100	97	94		98	96	94			97	95	93			91
6	103	98	95	93	102	98	95	92		96	94	92			95	93	91			90
7	101	96	93	91	100	96	93	90		95	92	90			94	91	90			88
8	100	94	91	89	99	94	91	89		93	90	89			92	90	88			87
9	98	93	90	88	97	92	89	87		92	89	87			91	89	87			86
10	96	91	88	86	96	91	88	86		90	88	86			90	87	86			85

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1811578
5°	1309565
10°	381246
15°	133777
20°	57255
25°	25772
30°	9974
35°	4965
40°	3337
45°	2136
50°	1205
55°	878
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	63.2
10°-20°	97.0	25.7
20°-30°	29.8	7.9
30°-40°	7.3	1.9
40°-50°	3.0	0.8
50°-60°	1.3	0.4
60°-70°	0.3	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°	365.1	96.8
0°-40°	372.4	98.8
0°-60°	376.8	99.9
0°-90°	377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4677	
5°	3368	238
15°	334	97
25°	60	30
35°	10	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4676.9
1°	4605.4
2°	4431.1
3°	4153.2
4°	3790.1
5°	3368.0
6°	2892.2
7°	2375.8
8°	1852.1
9°	1362.6
10°	969.3
11°	694.7
12°	522.3
13°	425.3
14°	372.3
15°	333.6
17.5°	205.8
20°	138.9
22.5°	93.1
25°	60.3
27.5°	36.7
30°	22.3
32.5°	14.4
35°	10.5
37.5°	8.5
40°	6.6
42.5°	5.2
45°	3.9
47.5°	2.6
50°	2.0
52.5°	2.0
55°	1.3
57.5°	1.3
60°	0.7
62.5°	0.7
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)