

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: P224230

Luminaire Tested: **LD2B05D010 EU2B05FL409024 2LBDSQLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409024 2LBDSQLC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 486.0 lumens
Efficiency: N/A
Efficacy: 66.6 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

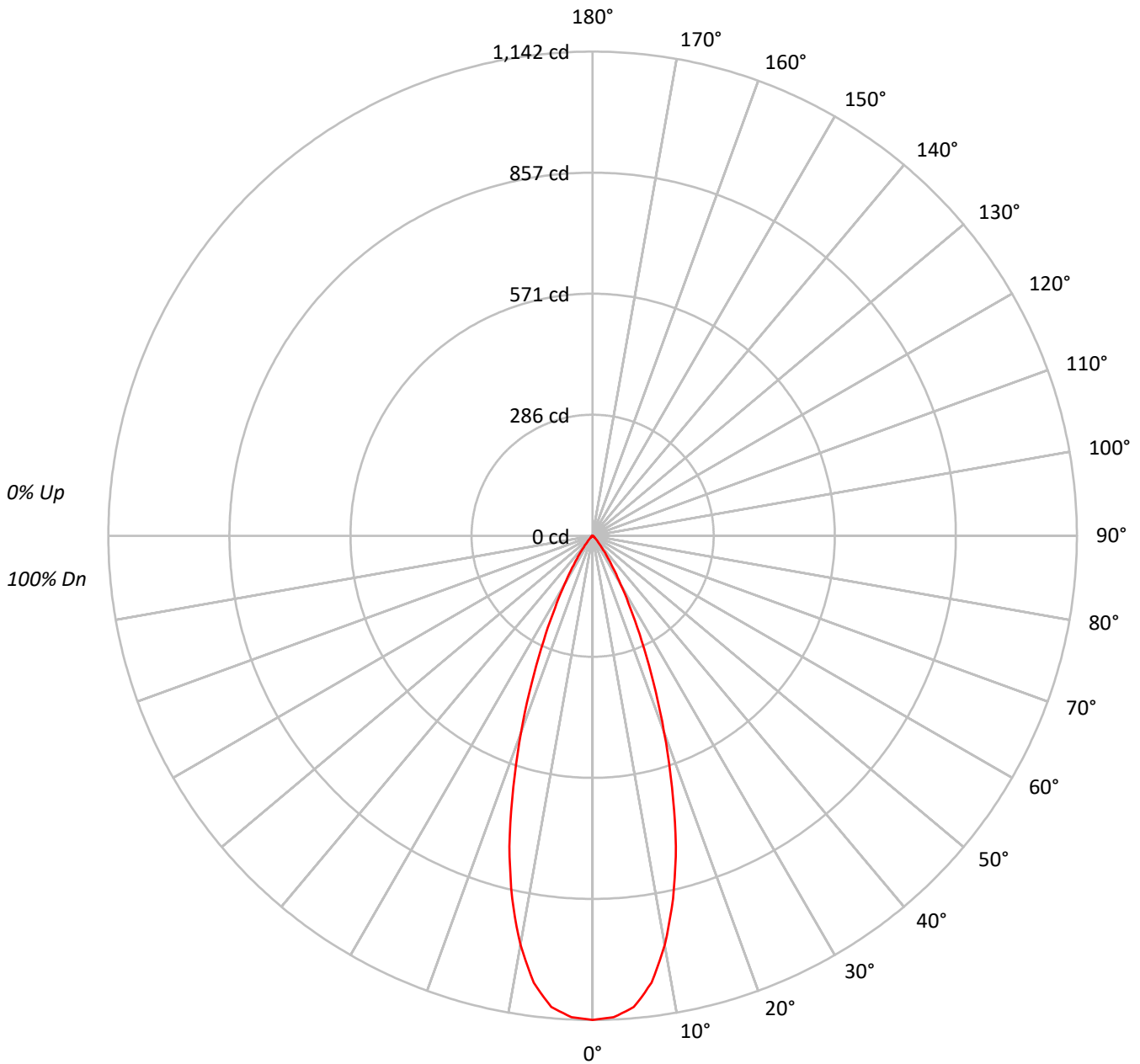
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	442388
5°	433890
10°	385416
15°	304166
20°	202846
25°	116763
30°	59129
35°	27710
40°	11377
45°	5149
50°	2651
55°	1688
60°	930
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	21.0
10°-20°	205.0	42.2
20°-30°	128.4	26.4
30°-40°	39.7	8.2
40°-50°	8.2	1.7
50°-60°	2.3	0.5
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°	435.5	89.6
0°-40°	475.2	97.8
0°-60°	485.7	99.9
0°-90°	486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1142	
5°	1116	102
15°	758	205
25°	273	128
35°	59	40
45°	9	8
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1142.1
2.5°	1136.5
5°	1115.9
7.5°	1063.5
10°	979.9
12.5°	877.0
15°	758.5
17.5°	621.9
20°	492.1
22.5°	374.3
25°	273.2
27.5°	192.1
30°	132.2
32.5°	88.6
35°	58.6
37.5°	36.8
40°	22.5
42.5°	14.3
45°	9.4
47.5°	6.2
50°	4.4
52.5°	3.1
55°	2.5
57.5°	1.9
60°	1.2
62.5°	0.6
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)