

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: P225245

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
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*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 480.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

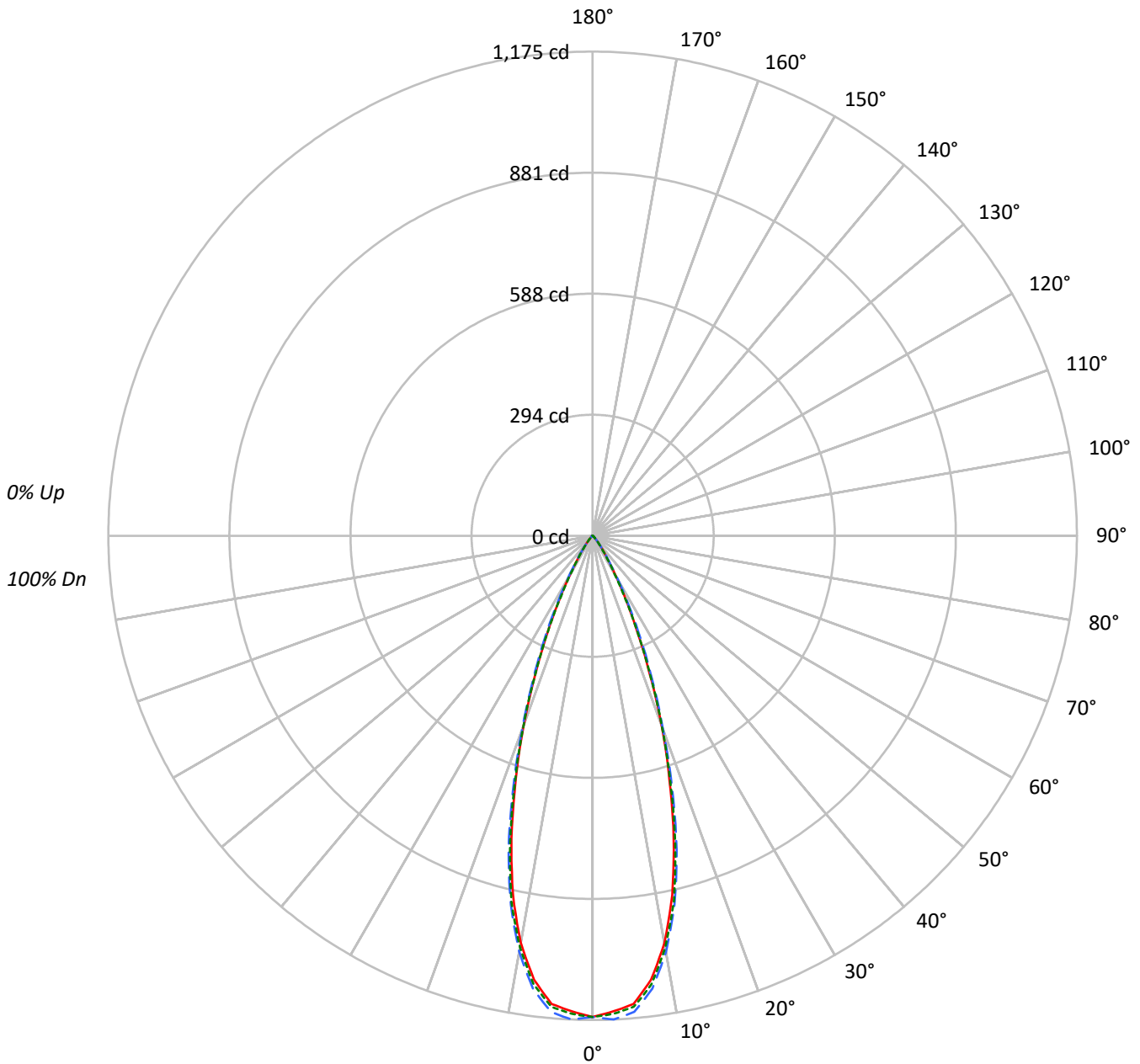
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	452343	452343	452343
5°	443417	451038	446177
10°	394580	403076	398946
15°	304848	315876	310382
20°	201115	205402	202187
25°	109711	117233	110266
30°	49378	54611	47321
35°	21326	21941	19435
40°	8899	9253	8242
45°	3561	3944	3944
50°	1567	1989	1989
55°	878	878	1351
60°	542	542	542
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	22.0
10°-20°	210.1	43.8
20°-30°	124.1	25.9
30°-40°	32.3	6.7
40°-50°	6.4	1.3
50°-60°	1.4	0.3
60°-70°	0.1	0.0
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°	439.8	91.6
0°-40°	472.1	98.3
0°-60°	479.9	100.0
0°-90°	480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1140	1150	1160	1152	1148	104
15°	760	777	788	776	774	206
25°	257	265	274	264	258	121
35°	45	47	46	46	41	32
45°	6	8	7	7	7	6
55°	1	1	1	1	2	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.8	1167.8	1167.8	1167.8	1167.8
2.5°	1155.4	1167.1	1175.0	1168.4	1161.3
5°	1140.4	1149.5	1160.0	1152.1	1147.5
7.5°	1086.8	1100.5	1108.4	1104.4	1097.3
10°	1003.2	1013.7	1024.8	1020.8	1014.3
12.5°	892.8	907.2	917.6	908.5	909.8
15°	760.2	777.2	787.7	775.9	774.0
17.5°	619.8	632.9	640.1	632.9	627.7
20°	487.9	495.7	498.3	495.1	490.5
22.5°	360.5	369.0	376.9	369.0	363.1
25°	256.7	265.2	274.3	263.9	258.0
27.5°	173.1	178.3	186.1	176.3	167.9
30°	110.4	116.3	122.1	115.0	105.8
32.5°	69.9	73.8	74.5	73.2	65.3
35°	45.1	47.0	46.4	45.7	41.1
37.5°	28.7	28.7	29.4	28.7	26.1
40°	17.6	18.9	18.3	17.6	16.3
42.5°	10.5	11.8	11.1	11.1	10.5
45°	6.5	7.8	7.2	7.2	7.2
47.5°	4.6	5.2	4.6	4.6	5.2
50°	2.6	3.3	3.3	3.3	3.3
52.5°	2.0	2.0	2.0	2.0	2.6
55°	1.3	1.3	1.3	1.3	2.0
57.5°	1.3	1.3	0.7	0.7	1.3
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.0	0.0	0.0	0.7
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)