

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: P225220

Luminaire Tested: **LD2B05D010 EU2B05FL409727 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225220
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 EU2B05FL409727 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: 466.0 lumens
Efficiency: N/A
Efficacy: 63.8 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

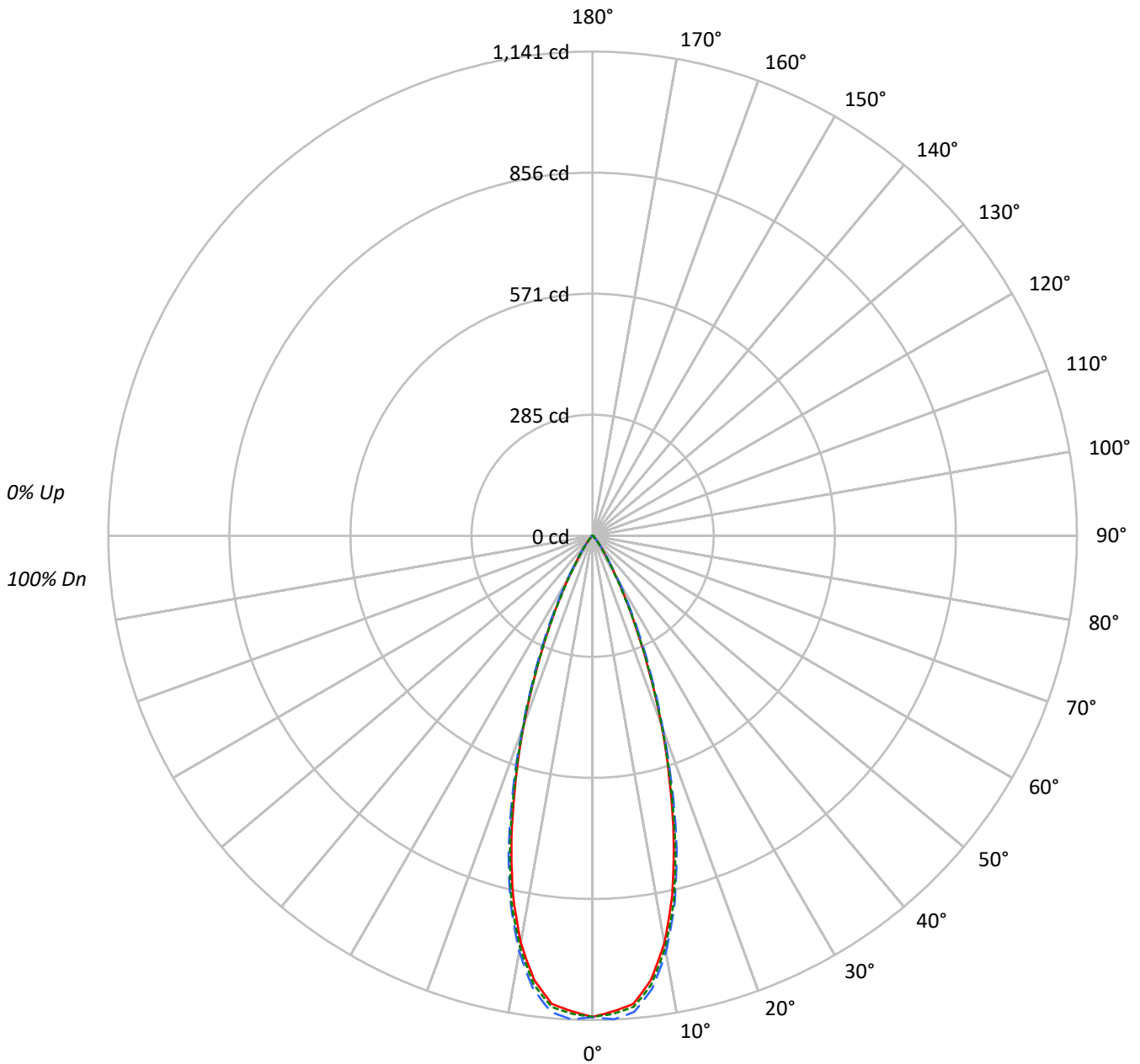
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	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°	439134	439134	439134
5°	430469	437856	433191
10°	383056	391315	387304
15°	295986	306652	301319
20°	195262	199425	196292
25°	106505	113814	107061
30°	47947	53046	45934
35°	20711	21279	18867
40°	8647	9000	8040
45°	3451	3835	3835
50°	1507	1928	1928
55°	878	878	1283
60°	465	465	465
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°	102.5	22.0
10°-20°	204.0	43.8
20°-30°	120.5	25.9
30°-40°	31.4	6.7
40°-50°	6.2	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°	427.0	91.6
0°-40°	458.3	98.4
0°-60°	465.9	100.0
0°-90°	466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1107	1116	1126	1118	1114	101
15°	738	755	765	753	751	200
25°	249	257	266	256	250	117
35°	44	46	45	44	40	31
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1121.7	1133.1	1140.7	1134.4	1127.4
5°	1107.1	1116.0	1126.1	1118.5	1114.1
7.5°	1055.1	1068.4	1076.0	1072.2	1065.3
10°	973.9	984.1	994.9	991.1	984.7
12.5°	866.8	880.7	890.9	882.0	883.3
15°	738.1	754.6	764.7	753.3	751.4
17.5°	601.7	614.4	621.4	614.4	609.3
20°	473.7	481.3	483.8	480.6	476.2
22.5°	350.0	358.3	365.9	358.3	352.5
25°	249.2	257.4	266.3	256.2	250.5
27.5°	168.0	173.1	180.7	171.2	163.0
30°	107.2	112.9	118.6	111.6	102.7
32.5°	67.8	71.7	72.3	71.0	63.4
35°	43.8	45.7	45.0	44.4	39.9
37.5°	27.9	27.9	28.5	27.9	25.4
40°	17.1	18.4	17.8	17.1	15.9
42.5°	10.1	11.4	10.8	10.8	10.1
45°	6.3	7.6	7.0	7.0	7.0
47.5°	4.4	5.1	4.4	4.4	5.1
50°	2.5	3.2	3.2	3.2	3.2
52.5°	1.9	1.9	1.9	1.9	2.5
55°	1.3	1.3	1.3	1.3	1.9
57.5°	1.3	1.3	0.6	0.6	1.3
60°	0.6	0.6	0.6	0.6	0.6
62.5°	0.6	0.0	0.0	0.0	0.6
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)