

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: P225261

Luminaire Tested: **LD2B15D010 EU2B15FL409027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225261
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: LD2B15D010 EU2B15FL409027 2LBDSQLC*MB
Description: 1500 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: 930.2 lumens
Efficiency: N/A
Efficacy: 65.0 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

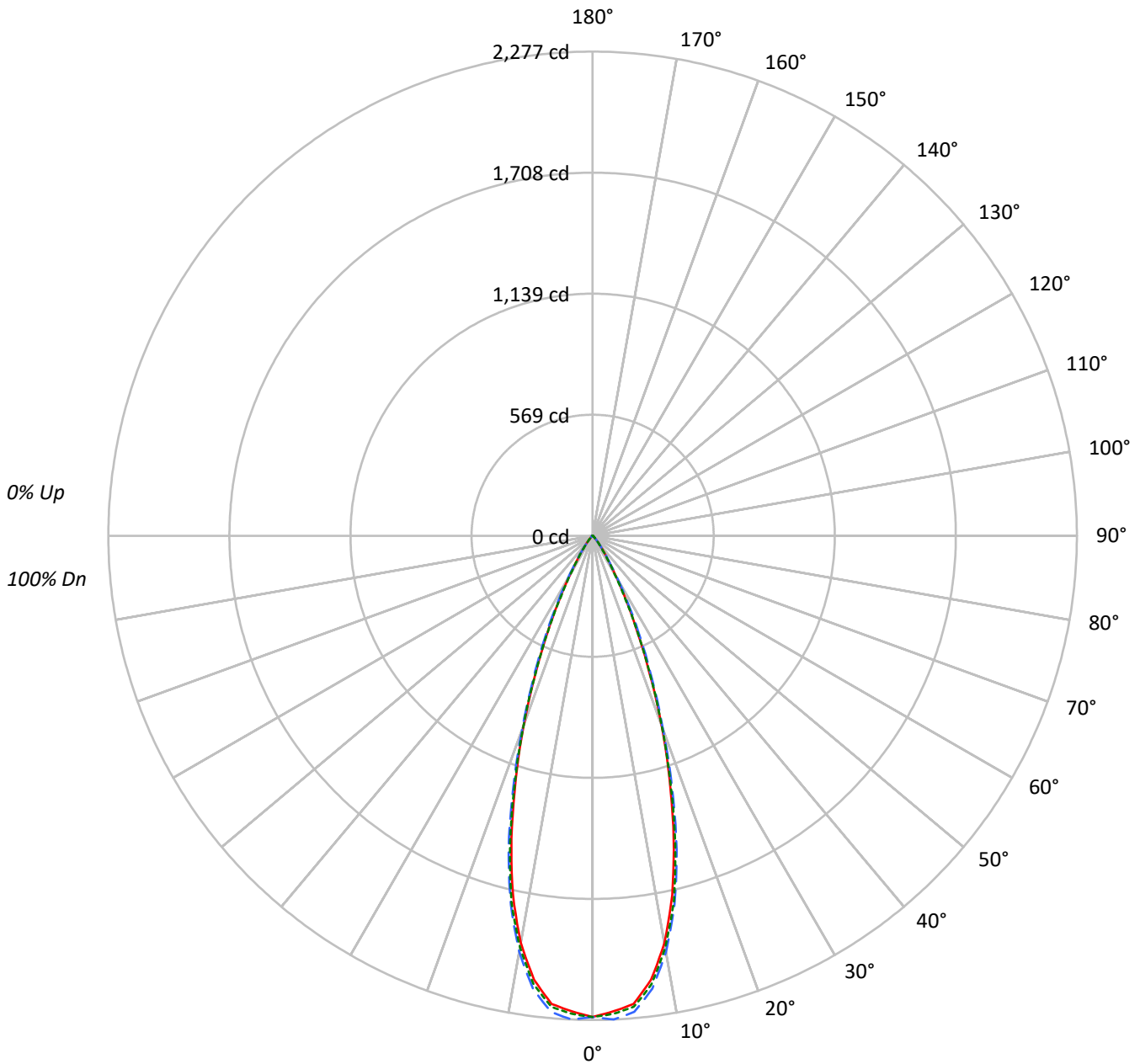
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	876603	876603	876603
5°	859266	874041	864670
10°	764656	781097	773113
15°	590808	612102	601475
20°	389740	398066	391801
25°	212583	227200	213695
30°	95671	105868	91690
35°	41281	42510	37687
40°	17293	17900	15978
45°	6957	7614	7614
50°	3073	3796	3796
55°	1688	1688	2566
60°	1007	1007	1007
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°	204.6	22.0
10°-20°	407.2	43.8
20°-30°	240.5	25.9
30°-40°	62.6	6.7
40°-50°	12.4	1.3
50°-60°	2.7	0.3
60°-70°	0.2	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°	852.3	91.6
0°-40°	914.9	98.4
0°-60°	930.0	100.0
0°-90°	930.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	930.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2210	2228	2248	2233	2224	202
15°	1473	1506	1526	1504	1500	400
25°	497	514	532	511	500	234
35°	87	91	90	89	80	61
45°	13	15	14	14	14	12
55°	2	2	2	2	4	3
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°	2263.1	2263.1	2263.1	2263.1	2263.1
2.5°	2239.0	2261.8	2277.0	2264.3	2250.4
5°	2209.9	2227.6	2247.9	2232.7	2223.8
7.5°	2106.1	2132.7	2147.9	2140.3	2126.4
10°	1944.1	1964.4	1985.9	1978.3	1965.6
12.5°	1730.2	1758.1	1778.3	1760.6	1763.1
15°	1473.3	1506.2	1526.4	1503.7	1499.9
17.5°	1201.2	1226.5	1240.4	1226.5	1216.3
20°	945.5	960.7	965.7	959.4	950.5
22.5°	698.7	715.1	730.3	715.1	703.7
25°	497.4	513.9	531.6	511.3	500.0
27.5°	335.4	345.5	360.7	341.7	325.3
30°	213.9	225.3	236.7	222.8	205.0
32.5°	135.4	143.0	144.3	141.8	126.6
35°	87.3	91.1	89.9	88.6	79.7
37.5°	55.7	55.7	57.0	55.7	50.6
40°	34.2	36.7	35.4	34.2	31.6
42.5°	20.3	22.8	21.5	21.5	20.3
45°	12.7	15.2	13.9	13.9	13.9
47.5°	8.9	10.1	8.9	8.9	10.1
50°	5.1	6.3	6.3	6.3	6.3
52.5°	3.8	3.8	3.8	3.8	5.1
55°	2.5	2.5	2.5	2.5	3.8
57.5°	2.5	2.5	1.3	1.3	2.5
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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)