

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: P#

Luminaire Tested: **LD2B05D010 EU2B05WFL558030 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL558030 2LBDSQLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

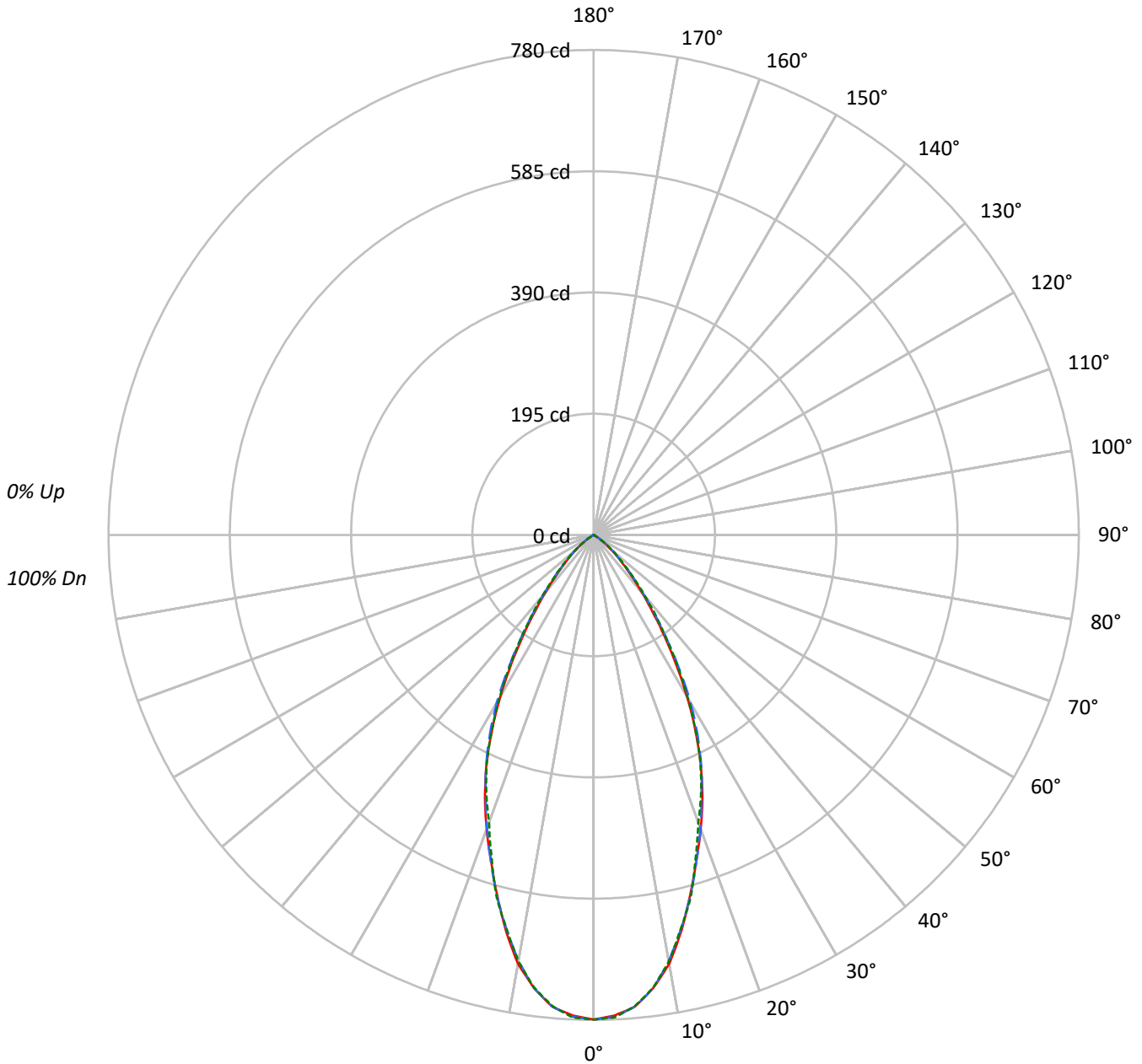
Lumens per Lamp: N/A
Luminaire Lumens: 627.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74				74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69				69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64				64
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60				60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56				56
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53				53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50				50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	301936	301936	301936
5°	296168	296168	295780
10°	275482	273516	273909
15°	240406	240807	241969
20°	207545	206721	202681
25°	174204	175016	173776
30°	134046	139369	135388
35°	93532	97315	96369
40°	61031	63509	65531
45°	37414	39550	41194
50°	22055	23863	25008
55°	9319	12021	11345
60°	1549	3099	2324
65°	917	917	917
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°	70.6	11.3
10°-20°	167.1	26.6
20°-30°	185.1	29.5
30°-40°	128.8	20.5
40°-50°	58.0	9.2
50°-60°	16.4	2.6
60°-70°	1.1	0.2
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°	422.7	67.4
0°-40°	551.5	88.0
0°-60°	625.9	99.8
0°-90°	627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	762	765	762	759	761	71
15°	600	602	600	600	603	167
25°	408	410	410	405	407	185
35°	198	204	206	206	204	125
45°	68	70	72	74	75	55
55°	14	16	18	18	17	14
65°	1	1	1	1	1	1
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°	779.5	779.5	779.5	779.5	779.5
2.5°	773.6	777.5	775.6	775.6	776.6
5°	761.7	764.7	761.7	758.7	760.7
7.5°	735.0	738.0	735.0	733.0	734.0
10°	700.4	698.4	695.4	693.5	696.4
12.5°	651.9	650.9	648.9	647.9	647.9
15°	599.5	602.4	600.5	599.5	603.4
17.5°	549.0	552.0	550.0	547.0	545.1
20°	503.5	504.5	501.5	496.6	491.7
22.5°	457.0	458.0	453.1	451.1	451.1
25°	407.6	410.5	409.5	404.6	406.6
27.5°	354.1	359.1	361.1	355.1	355.1
30°	299.7	303.7	311.6	303.7	302.7
32.5°	246.3	252.3	256.2	255.2	252.3
35°	197.8	203.8	205.8	205.8	203.8
37.5°	154.3	160.3	162.2	164.2	164.2
40°	120.7	123.7	125.6	128.6	129.6
42.5°	91.0	94.0	96.9	98.9	97.9
45°	68.3	70.2	72.2	74.2	75.2
47.5°	51.4	51.4	53.4	55.4	55.4
50°	36.6	38.6	39.6	40.6	41.5
52.5°	24.7	25.7	27.7	28.7	27.7
55°	13.8	15.8	17.8	17.8	16.8
57.5°	5.9	8.9	9.9	9.9	7.9
60°	2.0	4.0	4.0	4.9	3.0
62.5°	1.0	2.0	2.0	2.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
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)