

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 EU2B05WFL558027 2LBDSQC*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 (P14813)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL558027 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

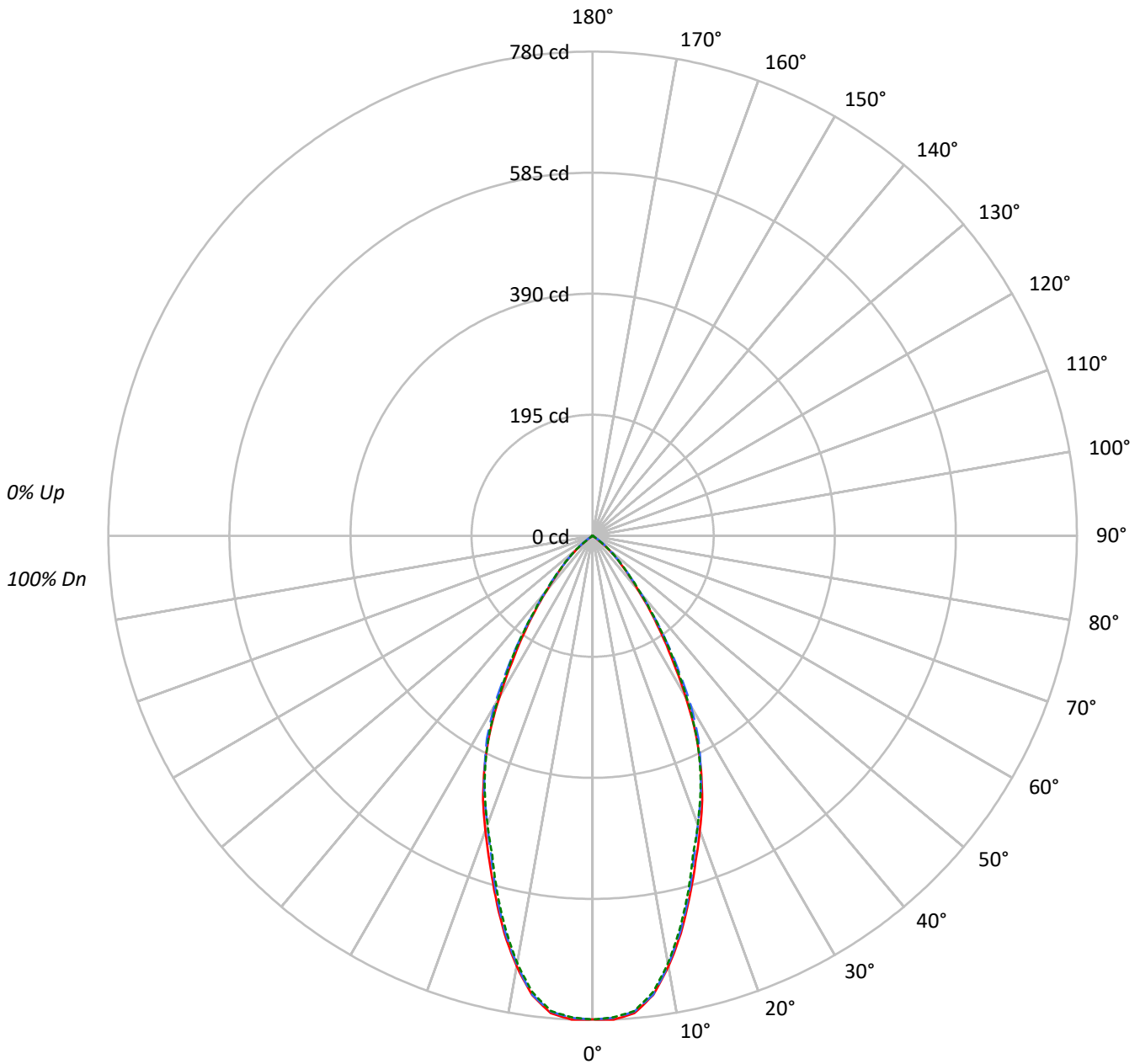
Lumens per Lamp: N/A
Luminaire Lumens: 615.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: LD2B05D010 EU2B05WFL558027 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B05WFL558027 2LBDSQC*MB

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94				94
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81				81
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75				75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70				70
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65				65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61				61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57				57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54				54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51				51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	301820	301820	301820
5°	300212	299162	298812
10°	277056	275994	274971
15°	241769	239964	238200
20°	208122	204083	204083
25°	176212	175828	175059
30°	134225	141382	136596
35°	91357	96842	95991
40°	57643	60778	60323
45°	35606	36099	36592
50°	18259	20368	19826
55°	2431	7226	3039
60°	697	697	697
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B05WFL558027 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	11.6
10°-20°	166.6	27.1
20°-30°	187.0	30.4
30°-40°	127.0	20.6
40°-50°	53.1	8.6
50°-60°	9.9	1.6
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°	424.8	69.1
0°-40°	551.8	89.7
0°-60°	614.8	100.0
0°-90°	615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	772	771	769	768	768	71
15°	603	601	598	593	594	168
25°	412	416	411	410	410	187
35°	193	200	205	200	203	122
45°	65	64	66	67	67	52
55°	4	8	11	8	4	7
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



TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B05WFL558027 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.2	779.2	779.2	779.2	779.2
2.5°	780.1	778.3	777.4	776.5	776.5
5°	772.1	771.2	769.4	767.6	768.5
7.5°	746.3	745.4	745.4	741.8	741.8
10°	704.4	704.4	701.7	701.7	699.1
12.5°	656.3	652.7	652.7	650.1	648.3
15°	602.9	601.1	598.4	593.1	594.0
17.5°	551.2	547.7	542.3	539.7	537.9
20°	504.9	504.0	495.1	493.3	495.1
22.5°	461.3	462.2	455.1	453.3	453.3
25°	412.3	415.9	411.4	410.5	409.6
27.5°	359.8	366.0	368.7	362.4	361.5
30°	300.1	310.8	316.1	309.9	305.4
32.5°	242.2	252.9	258.2	253.8	251.1
35°	193.2	199.5	204.8	200.4	203.0
37.5°	151.4	154.9	156.7	156.7	156.7
40°	114.0	117.5	120.2	121.1	119.3
42.5°	86.4	88.2	89.9	90.8	89.9
45°	65.0	64.1	65.9	66.8	66.8
47.5°	47.2	47.2	48.1	49.0	49.0
50°	30.3	32.1	33.8	32.9	32.9
52.5°	13.4	18.7	22.3	18.7	15.1
55°	3.6	8.0	10.7	8.0	4.5
57.5°	0.9	2.7	3.6	2.7	1.8
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
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



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)