

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 EU2B05WFL559727 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 EU2B05WFL559727 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: 436.0 lumens
Efficiency: N/A
Efficacy: 59.7 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

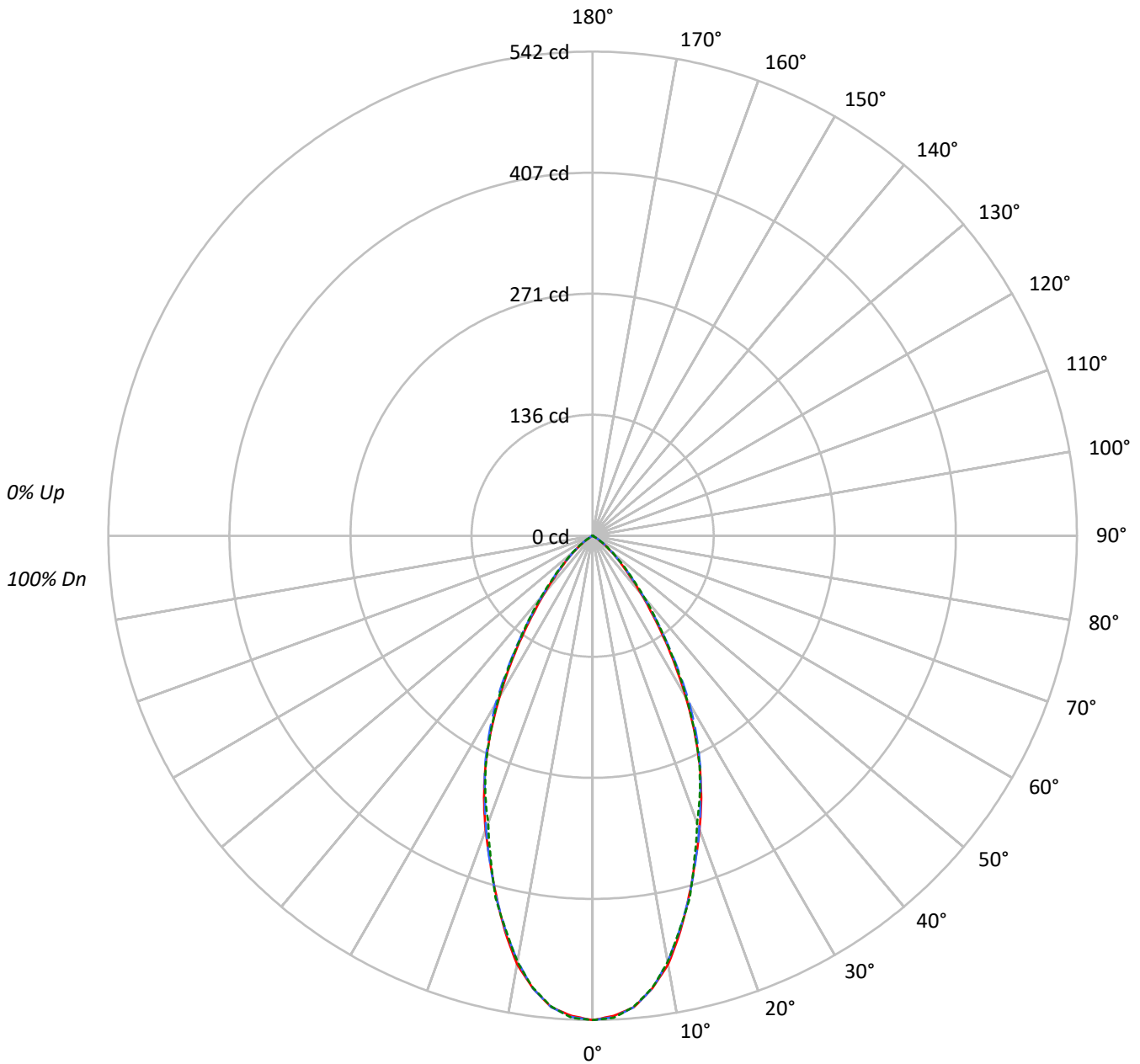
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	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	75	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°	209980	209980	209980
5°	205961	205961	205689
10°	191548	190210	190486
15°	167181	167422	168264
20°	144313	143777	140933
25°	121122	121720	120823
30°	93211	96923	94150
35°	65066	67667	67005
40°	42424	44193	45559
45°	26020	27499	28649
50°	15366	16572	17415
55°	6483	8374	7901
60°	1085	2169	1627
65°	642	642	642
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°	49.1	11.3
10°-20°	116.2	26.6
20°-30°	128.7	29.5
30°-40°	89.6	20.5
40°-50°	40.3	9.2
50°-60°	11.4	2.6
60°-70°	0.8	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°	294.0	67.4
0°-40°	383.5	88.0
0°-60°	435.2	99.8
0°-90°	436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	530	532	530	528	529	49
15°	417	419	418	417	420	116
25°	283	286	285	281	283	128
35°	138	142	143	143	142	87
45°	48	49	50	52	52	38
55°	10	11	12	12	12	10
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°	542.1	542.1	542.1	542.1	542.1
2.5°	537.9	540.7	539.3	539.3	540.0
5°	529.7	531.7	529.7	527.6	529.0
7.5°	511.1	513.2	511.1	509.7	510.4
10°	487.0	485.7	483.6	482.2	484.3
12.5°	453.3	452.6	451.3	450.6	450.6
15°	416.9	418.9	417.5	416.9	419.6
17.5°	381.8	383.8	382.5	380.4	379.0
20°	350.1	350.8	348.8	345.3	341.9
22.5°	317.8	318.5	315.1	313.7	313.7
25°	283.4	285.5	284.8	281.3	282.7
27.5°	246.3	249.7	251.1	247.0	247.0
30°	208.4	211.2	216.7	211.2	210.5
32.5°	171.3	175.4	178.2	177.5	175.4
35°	137.6	141.7	143.1	143.1	141.7
37.5°	107.3	111.4	112.8	114.2	114.2
40°	83.9	86.0	87.4	89.4	90.1
42.5°	63.3	65.3	67.4	68.8	68.1
45°	47.5	48.8	50.2	51.6	52.3
47.5°	35.8	35.8	37.1	38.5	38.5
50°	25.5	26.8	27.5	28.2	28.9
52.5°	17.2	17.9	19.3	19.9	19.3
55°	9.6	11.0	12.4	12.4	11.7
57.5°	4.1	6.2	6.9	6.9	5.5
60°	1.4	2.8	2.8	3.4	2.1
62.5°	0.7	1.4	1.4	1.4	0.7
65°	0.7	0.7	0.7	0.7	0.7
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)