

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 EU2B05WFL558040 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 EU2B05WFL558040 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

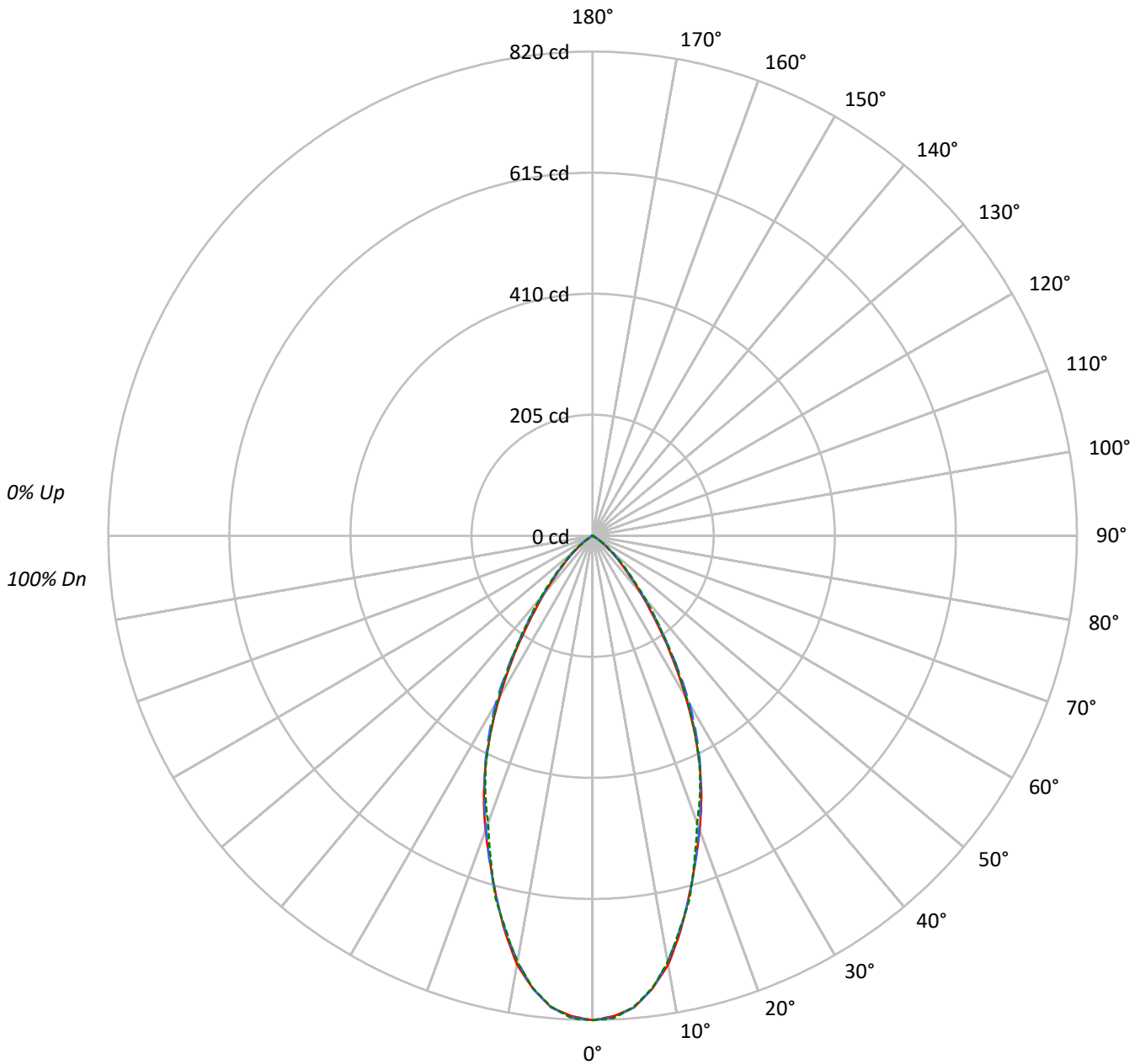
Lumens per Lamp: N/A
Luminaire Lumens: 660.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	317817	317817	317817
5°	311760	311760	311372
10°	289957	287911	288344
15°	253037	253478	254722
20°	218469	217603	213316
25°	183350	184247	182922
30°	141113	146704	142500
35°	98497	102422	101429
40°	64217	66846	68970
45°	39331	41632	43330
50°	23200	25129	26334
55°	9860	12628	11953
60°	1627	3254	2402
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°	74.3	11.3
10°-20°	175.8	26.6
20°-30°	194.8	29.5
30°-40°	135.6	20.5
40°-50°	61.0	9.2
50°-60°	17.2	2.6
60°-70°	1.2	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°	445.0	67.4
0°-40°	580.6	88.0
0°-60°	658.8	99.8
0°-90°	660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	802	805	802	799	801	74
15°	631	634	632	631	635	176
25°	429	432	431	426	428	194
35°	208	214	217	217	214	131
45°	72	74	76	78	79	58
55°	15	17	19	19	18	15
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.5	820.5	820.5	820.5	820.5
2.5°	814.3	818.5	816.4	816.4	817.4
5°	801.8	804.9	801.8	798.7	800.8
7.5°	773.7	776.8	773.7	771.6	772.6
10°	737.2	735.2	732.0	730.0	733.1
12.5°	686.2	685.2	683.1	682.1	682.1
15°	631.0	634.2	632.1	631.0	635.2
17.5°	577.9	581.0	579.0	575.8	573.8
20°	530.0	531.1	527.9	522.7	517.5
22.5°	481.1	482.1	476.9	474.8	474.8
25°	429.0	432.1	431.1	425.9	428.0
27.5°	372.8	378.0	380.1	373.8	373.8
30°	315.5	319.7	328.0	319.7	318.6
32.5°	259.3	265.5	269.7	268.7	265.5
35°	208.3	214.5	216.6	216.6	214.5
37.5°	162.4	168.7	170.8	172.9	172.9
40°	127.0	130.2	132.2	135.4	136.4
42.5°	95.8	98.9	102.0	104.1	103.1
45°	71.8	73.9	76.0	78.1	79.1
47.5°	54.1	54.1	56.2	58.3	58.3
50°	38.5	40.6	41.7	42.7	43.7
52.5°	26.0	27.1	29.2	30.2	29.2
55°	14.6	16.7	18.7	18.7	17.7
57.5°	6.2	9.4	10.4	10.4	8.3
60°	2.1	4.2	4.2	5.2	3.1
62.5°	1.0	2.1	2.1	2.1	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)