

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: **LD2B20D010 EU2B20WFL558030 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: LD2B20D010 EU2B20WFL558030 2LBDSQC*MB
Description: 2000 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: 1519.0 lumens
Efficiency: N/A
Efficacy: 72.7 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

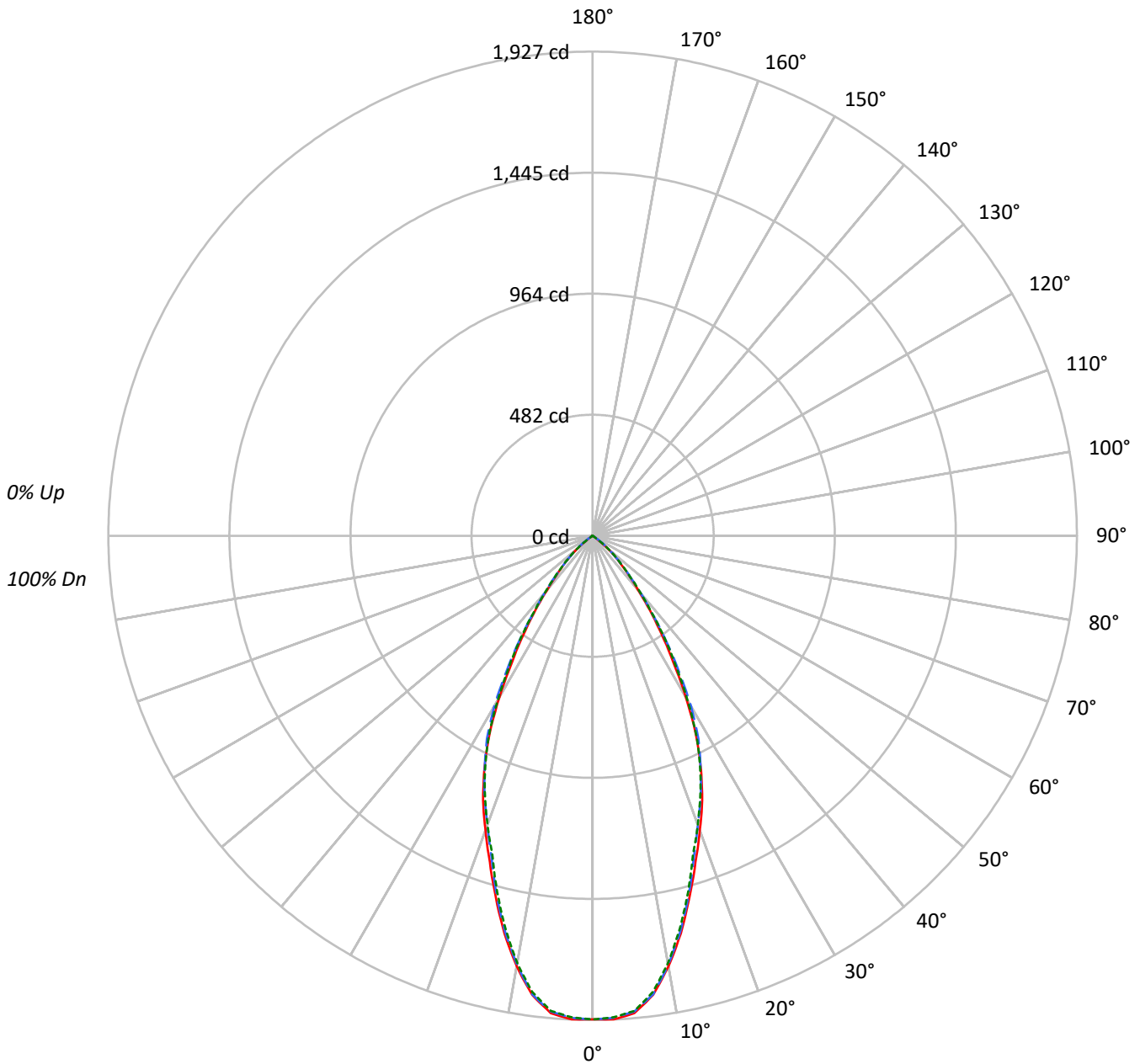
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	745486	745486	745486
5°	741490	738924	738069
10°	684301	681705	679109
15°	597144	592733	588322
20°	514061	504085	504085
25°	435253	434313	432432
30°	331516	349227	337419
35°	225697	239221	237140
40°	142339	150126	149013
45°	87975	89180	90385
50°	45075	50378	49052
55°	5943	17828	7428
60°	1704	1704	1704
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°	176.0	11.6
10°-20°	411.5	27.1
20°-30°	461.8	30.4
30°-40°	313.7	20.6
40°-50°	131.1	8.6
50°-60°	24.5	1.6
60°-70°	0.4	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°	1049.3	69.1
0°-40°	1363.0	89.7
0°-60°	1518.6	100.0
0°-90°	1519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1907	1905	1900	1896	1898	177
15°	1489	1485	1478	1465	1467	415
25°	1018	1027	1016	1014	1012	461
35°	477	493	506	495	502	302
45°	161	158	163	165	165	127
55°	9	20	26	20	11	18
65°	0	0	0	0	0	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°	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1926.8	1922.4	1920.2	1918.0	1918.0
5°	1907.0	1904.8	1900.4	1896.0	1898.2
7.5°	1843.2	1841.0	1841.0	1832.2	1832.2
10°	1739.8	1739.8	1733.2	1733.2	1726.6
12.5°	1621.0	1612.2	1612.2	1605.6	1601.2
15°	1489.1	1484.7	1478.1	1464.9	1467.1
17.5°	1361.5	1352.7	1339.5	1332.9	1328.5
20°	1247.1	1244.9	1222.9	1218.5	1222.9
22.5°	1139.3	1141.5	1123.9	1119.5	1119.5
25°	1018.4	1027.2	1016.2	1014.0	1011.8
27.5°	888.6	904.0	910.6	895.2	893.0
30°	741.2	767.6	780.8	765.4	754.4
32.5°	598.3	624.7	637.9	626.9	620.3
35°	477.3	492.7	505.9	494.9	501.5
37.5°	373.9	382.7	387.1	387.1	387.1
40°	281.5	290.3	296.9	299.1	294.7
42.5°	213.4	217.8	222.1	224.3	222.1
45°	160.6	158.4	162.8	165.0	165.0
47.5°	116.6	116.6	118.8	121.0	121.0
50°	74.8	79.2	83.6	81.4	81.4
52.5°	33.0	46.2	55.0	46.2	37.4
55°	8.8	19.8	26.4	19.8	11.0
57.5°	2.2	6.6	8.8	6.6	4.4
60°	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	0.0	0.0	0.0	2.2
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)