

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 EU2B20WFL559040 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: LD2B20D010 EU2B20WFL559040 2LBDSQLC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

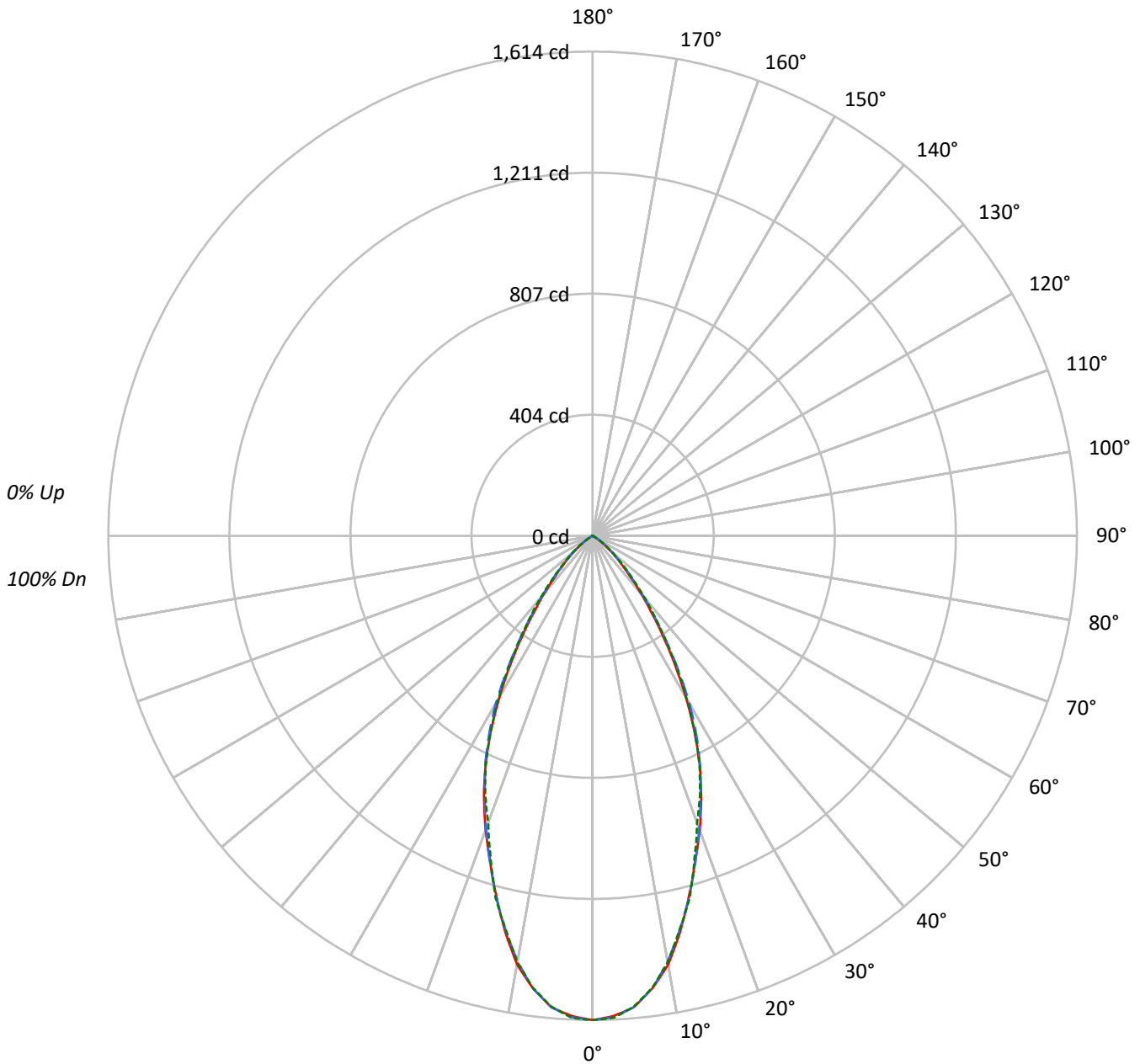
Lumens per Lamp: N/A
Luminaire Lumens: 1298.5 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	625331	625331	625331
5°	613372	613372	612556
10°	570513	566462	567287
15°	497854	498656	501142
20°	429847	428157	419707
25°	360759	362511	359862
30°	277664	288622	280393
35°	193732	201487	199548
40°	126361	131569	135715
45°	77457	81949	85291
50°	45677	49353	51824
55°	19382	24919	23501
60°	3176	6352	4726
65°	1833	1833	1833
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°	146.2	11.3
10°-20°	346.0	26.6
20°-30°	383.3	29.5
30°-40°	266.7	20.5
40°-50°	120.1	9.2
50°-60°	33.9	2.6
60°-70°	2.3	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°	875.5	67.4
0°-40°	1142.2	88.0
0°-60°	1296.2	99.8
0°-90°	1298.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1578	1584	1578	1571	1575	146
15°	1242	1248	1244	1242	1250	347
25°	844	850	848	838	842	383
35°	410	422	426	426	422	258
45°	141	146	150	154	156	114
55°	29	33	37	37	35	29
65°	2	2	2	2	2	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°	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1602.1	1610.3	1606.2	1606.2	1608.2
5°	1577.5	1583.6	1577.5	1571.3	1575.4
7.5°	1522.2	1528.3	1522.2	1518.1	1520.1
10°	1450.5	1446.4	1440.2	1436.1	1442.3
12.5°	1350.1	1348.0	1343.9	1341.9	1341.9
15°	1241.5	1247.6	1243.5	1241.5	1249.7
17.5°	1137.0	1143.2	1139.1	1132.9	1128.8
20°	1042.8	1044.8	1038.7	1028.4	1018.2
22.5°	946.5	948.5	938.3	934.2	934.2
25°	844.1	850.2	848.2	837.9	842.0
27.5°	733.4	743.7	747.8	735.5	735.5
30°	620.8	628.9	645.3	628.9	626.9
32.5°	510.1	522.4	530.6	528.6	522.4
35°	409.7	422.0	426.1	426.1	422.0
37.5°	319.6	331.9	336.0	340.1	340.1
40°	249.9	256.1	260.2	266.3	268.4
42.5°	188.5	194.6	200.8	204.9	202.8
45°	141.4	145.5	149.6	153.7	155.7
47.5°	106.5	106.5	110.6	114.7	114.7
50°	75.8	79.9	81.9	84.0	86.0
52.5°	51.2	53.3	57.4	59.4	57.4
55°	28.7	32.8	36.9	36.9	34.8
57.5°	12.3	18.4	20.5	20.5	16.4
60°	4.1	8.2	8.2	10.2	6.1
62.5°	2.0	4.1	4.1	4.1	2.0
65°	2.0	2.0	2.0	2.0	2.0
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)