

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 EU2B20WFL558040 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 EU2B20WFL558040 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

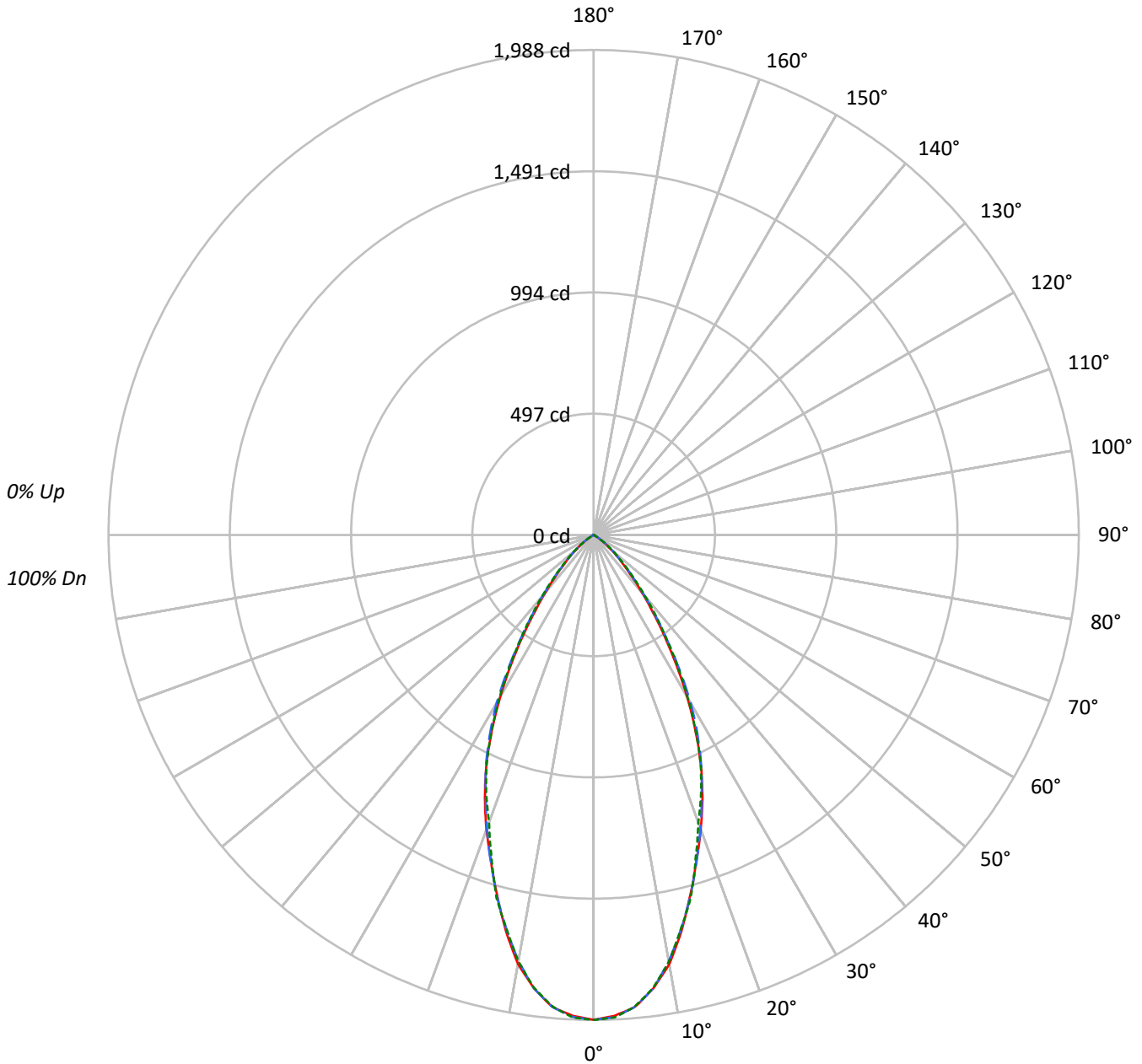
Lumens per Lamp: N/A
Luminaire Lumens: 1598.9 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	769966	769966	769966
5°	755255	755255	754283
10°	702472	697516	698500
15°	613024	614027	617074
20°	529271	527210	516781
25°	444185	446365	443117
30°	341892	355400	345247
35°	238559	248111	245746
40°	155637	162008	167115
45°	95370	100903	105011
50°	56223	60803	63876
55°	23839	30659	28971
60°	3873	7824	5888
65°	2291	2291	2291
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°	180.1	11.3
10°-20°	426.0	26.6
20°-30°	471.9	29.5
30°-40°	328.4	20.5
40°-50°	147.9	9.2
50°-60°	41.7	2.6
60°-70°	2.9	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°	1078.0	67.4
0°-40°	1406.4	88.0
0°-60°	1596.0	99.8
0°-90°	1598.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1942	1950	1942	1935	1940	180
15°	1529	1536	1531	1529	1539	427
25°	1039	1047	1044	1032	1037	471
35°	504	520	525	525	520	318
45°	174	179	184	189	192	141
55°	35	40	45	45	43	36
65°	2	2	2	2	2	2
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°	1987.8	1987.8	1987.8	1987.8	1987.8
2.5°	1972.7	1982.8	1977.7	1977.7	1980.3
5°	1942.4	1950.0	1942.4	1934.9	1939.9
7.5°	1874.3	1881.9	1874.3	1869.3	1871.8
10°	1786.0	1781.0	1773.4	1768.4	1775.9
12.5°	1662.4	1659.9	1654.8	1652.3	1652.3
15°	1528.7	1536.3	1531.2	1528.7	1538.8
17.5°	1400.1	1407.6	1402.6	1395.0	1390.0
20°	1284.0	1286.5	1279.0	1266.4	1253.7
22.5°	1165.5	1168.0	1155.4	1150.3	1150.3
25°	1039.3	1046.9	1044.4	1031.8	1036.8
27.5°	903.1	915.7	920.8	905.6	905.6
30°	764.4	774.4	794.6	774.4	771.9
32.5°	628.1	643.3	653.4	650.8	643.3
35°	504.5	519.7	524.7	524.7	519.7
37.5°	393.5	408.7	413.7	418.8	418.8
40°	307.8	315.3	320.4	327.9	330.5
42.5°	232.1	239.6	247.2	252.3	249.7
45°	174.1	179.1	184.2	189.2	191.7
47.5°	131.2	131.2	136.2	141.3	141.3
50°	93.3	98.4	100.9	103.4	106.0
52.5°	63.1	65.6	70.6	73.2	70.6
55°	35.3	40.4	45.4	45.4	42.9
57.5°	15.1	22.7	25.2	25.2	20.2
60°	5.0	10.1	10.1	12.6	7.6
62.5°	2.5	5.0	5.0	5.0	2.5
65°	2.5	2.5	2.5	2.5	2.5
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)