

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: P222786

Luminaire Tested: **LD2B20D010 EU2B20NFL259030 2LBDSQLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P222786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20NFL259030 2LBDSQLC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1322.8 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

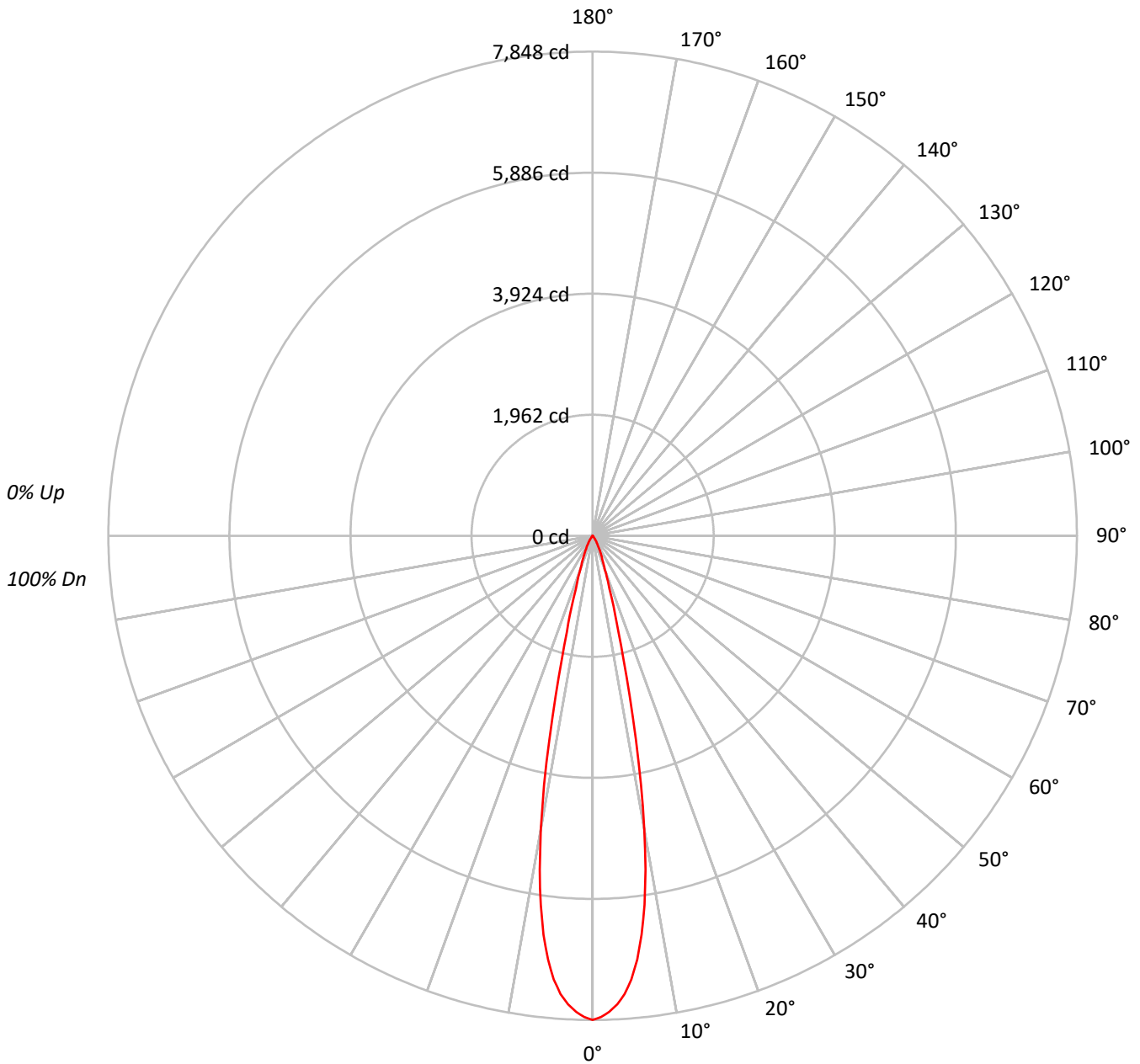
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																																				
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95																																				
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92																																				
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90																																				
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88																																				
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86																																				
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84																																				
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82																																				
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80																																				
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3039775
5°	2806660
10°	1899742
15°	646348
20°	237389
25°	125866
30°	64675
35°	30169
40°	9860
45°	4985
50°	2350
55°	878
60°	1007
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.0	46.4
10°-20°	516.3	39.0
20°-30°	141.7	10.7
30°-40°	41.3	3.1
40°-50°	7.6	0.6
50°-60°	1.7	0.1
60°-70°	0.2	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°	1272.0	96.2
0°-40°	1313.3	99.3
0°-60°	1322.6	100.0
0°-90°	1322.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1322.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7848	
5°	7218	614
15°	1612	516
25°	294	142
35°	64	41
45°	9	8
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7847.7
1°	7802.1
2°	7721.3
3°	7605.3
4°	7446.4
5°	7218.3
6°	6906.9
7°	6517.4
8°	6041.8
9°	5480.2
10°	4830.0
11°	4117.3
12°	3375.9
13°	2668.4
14°	2065.2
15°	1611.8
17.5°	909.5
20°	575.9
22.5°	410.4
25°	294.5
27.5°	208.5
30°	144.6
32.5°	101.6
35°	63.8
37.5°	26.1
40°	19.5
42.5°	14.3
45°	9.1
47.5°	5.2
50°	3.9
52.5°	2.6
55°	1.3
57.5°	1.3
60°	1.3
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)