

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: P264266

Luminaire Tested: **LD2B20D010 EU2B2010SP159027 2LBD*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P264266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-787-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B2010SP159027 2LBD*GPH
Description: 2000 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1290.9 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

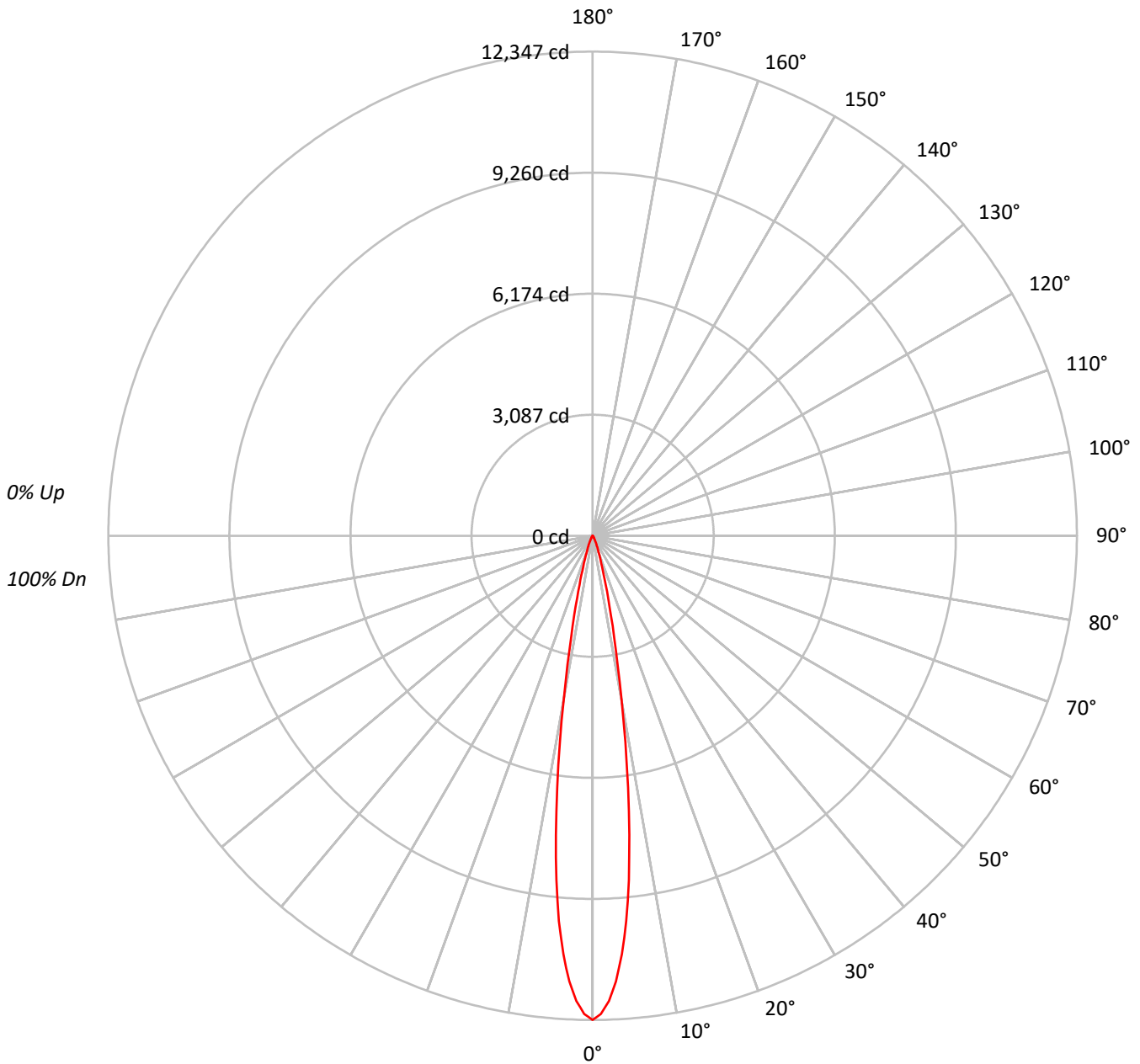
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98	96	94	92	90	88	86	84	82	80	78	76	74	72															
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	94	92	90	88	86	84	82	80	78	76	74	72																
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	94	92	90	88	86	84	82	80	78	76	74	72	70	68	66															
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	94	92	90	88	86	84	82	80	78	76	74	72	70	68	66	64															
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	89	87	85	83	81	79	77	75	73	71	69	67	65	63															
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	89	87	85	83	81	79	77	75	73	71	69	67	65	63	61															
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	86	84	82	80	78	76	74	72	70	68	66	64	62	60															
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	85	83	81	79	77	75	73	71	69	67	65	63	61	59															
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	83	81	79	77	75	73	71	69	67	65	63	61	59	57															
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	82	80	78	76	74	72	70	68	66	64	62	60	58	56															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6091735
5°	4882832
10°	2131138
15°	660420
20°	230223
25°	101687
30°	46031
35°	23911
40°	13654
45°	6489
50°	4068
55°	2236
60°	1283
65°	1518
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.7	58.0
10°-20°	410.0	31.8
20°-30°	93.5	7.2
30°-40°	26.8	2.1
40°-50°	8.3	0.6
50°-60°	2.5	0.2
60°-70°	1.1	0.1
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°	1252.2	97.0
0°-40°	1279.1	99.1
0°-60°	1289.8	99.9
0°-90°	1290.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12347	
5°	9859	749
15°	1293	410
25°	187	93
35°	40	27
45°	9	8
55°	3	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12347.4
1°	12193.7
2°	11874.4
3°	11378.9
4°	10698.0
5°	9859.4
6°	8831.3
7°	7682.7
8°	6483.7
9°	5323.2
10°	4254.0
11°	3349.2
12°	2636.4
13°	2074.7
14°	1638.8
15°	1293.0
16°	1020.1
17°	812.1
18°	653.1
19°	531.3
20°	438.5
22.5°	283.5
25°	186.8
26°	157.7
27°	133.8
28°	112.6
29°	94.1
30°	80.8
32.5°	55.6
35°	39.7
37.5°	29.1
40°	21.2
42.5°	14.6
45°	9.3
47.5°	6.6
50°	5.3
52.5°	4.0
55°	2.6
57.5°	1.3
60°	1.3
62.5°	1.3
65°	1.3
67.5°	1.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)