

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: P223739

Luminaire Tested: **LD2B05D010 EU2B05SP159040 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05SP159040 2LBDL*GPH
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 349.0 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

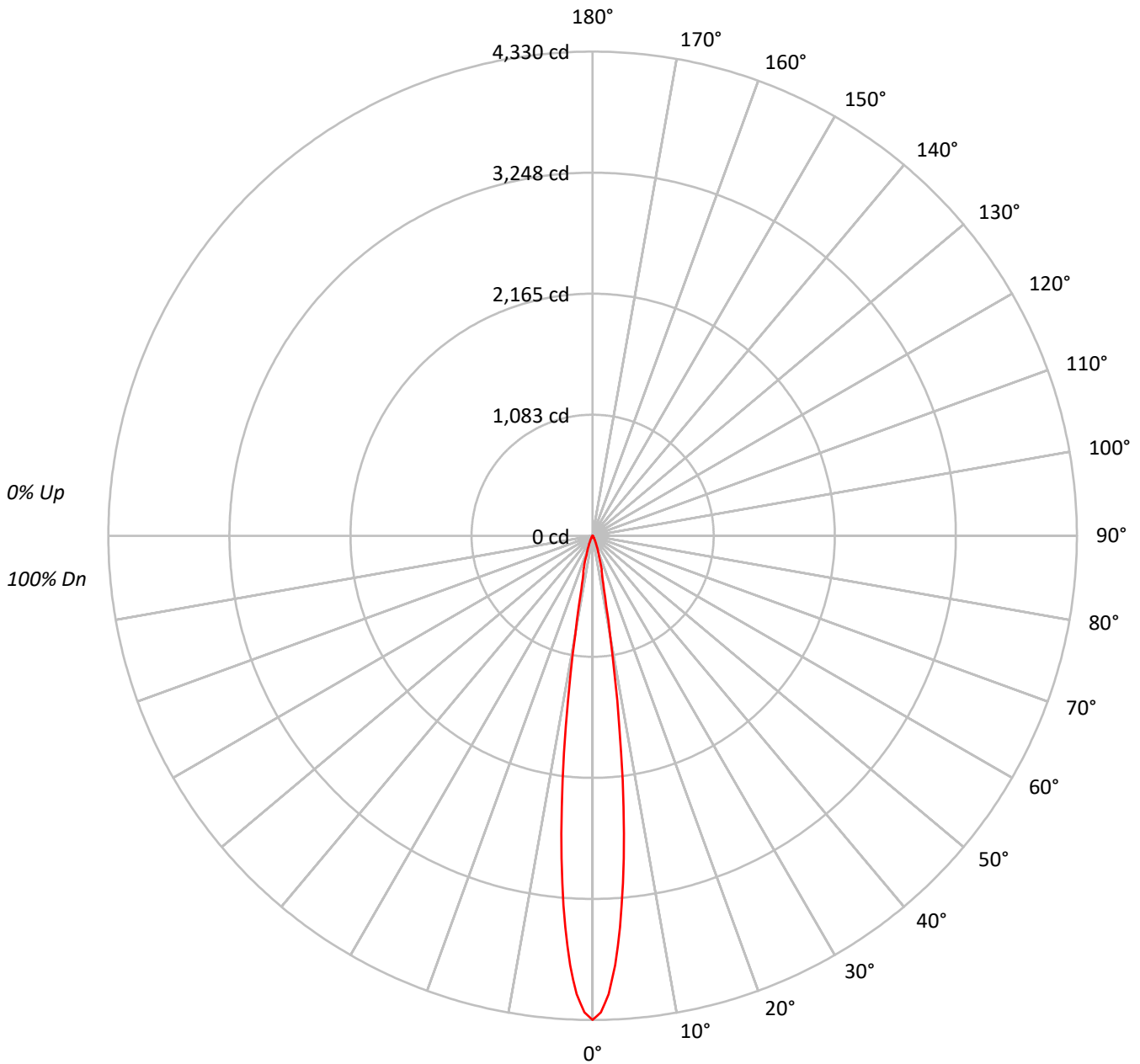
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94																			
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91																			
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90																			
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88																			
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87																			
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86																			
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1677014
5°	1212319
10°	352927
15°	123832
20°	53010
25°	23848
30°	9214
35°	4587
40°	3084
45°	1972
50°	1085
55°	810
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	63.2
10°-20°	89.8	25.7
20°-30°	27.6	7.9
30°-40°	6.8	1.9
40°-50°	2.8	0.8
50°-60°	1.2	0.3
60°-70°	0.2	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°	337.9	96.8
0°-40°	344.7	98.8
0°-60°	348.8	99.9
0°-90°	349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	349.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4330	
5°	3118	221
15°	309	90
25°	56	28
35°	10	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4329.5
1°	4263.4
2°	4102.0
3°	3844.7
4°	3508.6
5°	3117.9
6°	2677.4
7°	2199.3
8°	1714.6
9°	1261.4
10°	897.3
11°	643.1
12°	483.6
13°	393.8
14°	344.6
15°	308.8
17.5°	190.5
20°	128.6
22.5°	86.2
25°	55.8
27.5°	34.0
30°	20.6
32.5°	13.3
35°	9.7
37.5°	7.9
40°	6.1
42.5°	4.9
45°	3.6
47.5°	2.4
50°	1.8
52.5°	1.8
55°	1.2
57.5°	1.2
60°	0.6
62.5°	0.6
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)