

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: P224497

Luminaire Tested: **LD2B05D010 EU2B05FL409730 2LBDL*WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409730 2LBDL*WMH
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 545.1 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

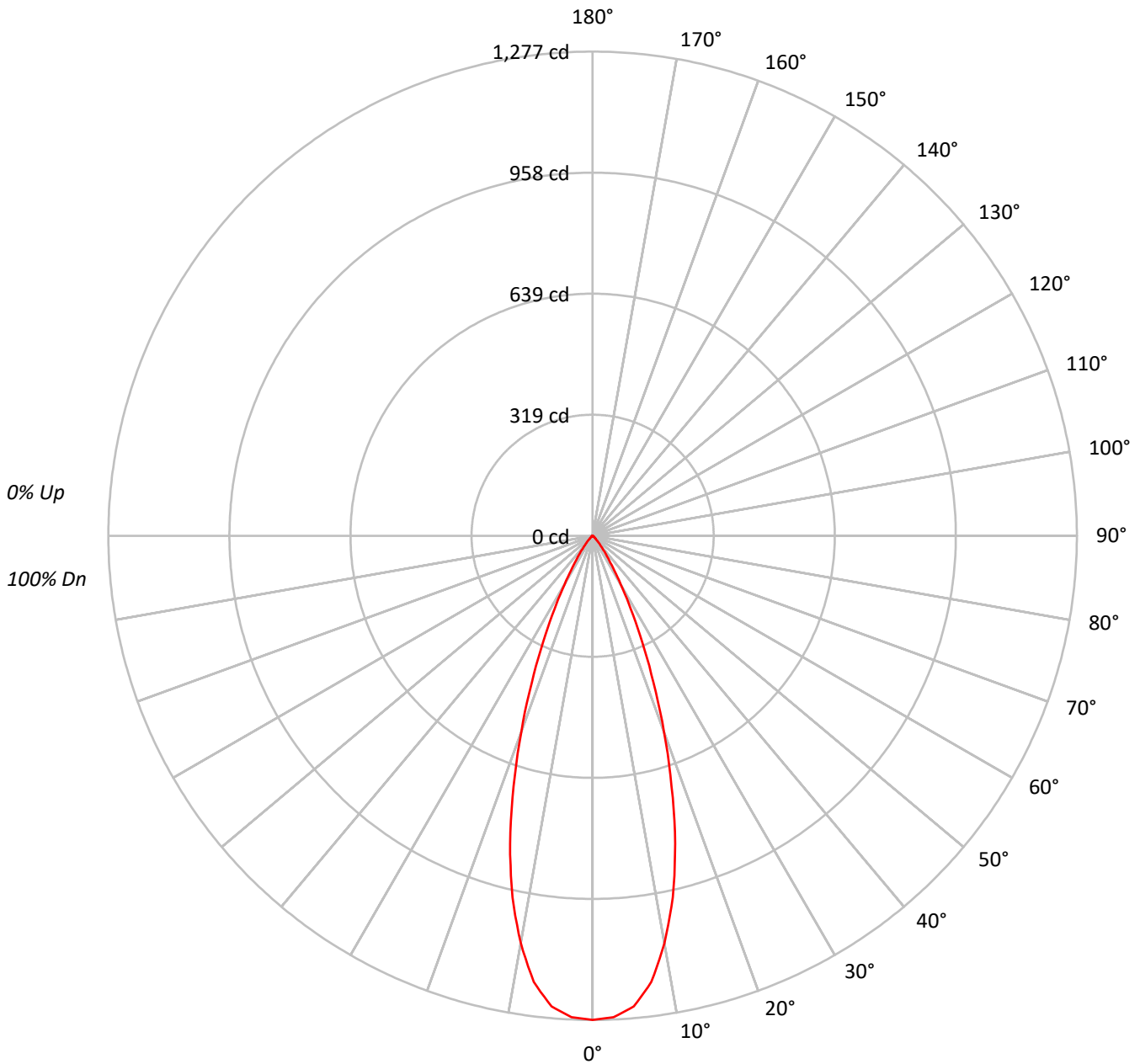
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	494641
5°	484438
10°	429153
15°	337209
20°	226713
25°	131721
30°	65838
35°	31020
40°	14664
45°	6409
50°	3314
55°	1891
60°	1085
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	20.9
10°-20°	228.1	41.8
20°-30°	144.2	26.5
30°-40°	45.1	8.3
40°-50°	10.5	1.9
50°-60°	2.8	0.5
60°-70°	0.5	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°	486.3	89.2
0°-40°	531.3	97.5
0°-60°	544.6	99.9
0°-90°	545.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1277	
5°	1246	114
15°	841	228
25°	308	144
35°	66	45
45°	12	10
55°	3	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1277.0
2.5°	1270.7
5°	1245.9
7.5°	1187.1
10°	1091.1
12.5°	977.1
15°	840.9
17.5°	692.4
20°	550.0
22.5°	418.7
25°	308.2
27.5°	217.7
30°	147.2
32.5°	98.1
35°	65.6
37.5°	44.2
40°	29.0
42.5°	18.0
45°	11.7
47.5°	8.3
50°	5.5
52.5°	4.1
55°	2.8
57.5°	2.1
60°	1.4
62.5°	1.4
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)