

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: P201206

Luminaire Tested: **LD4B15D010 EU4B10208035 4LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P201206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35240)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15D010 EU4B10208035 4LBM1LI
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1481.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.76
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

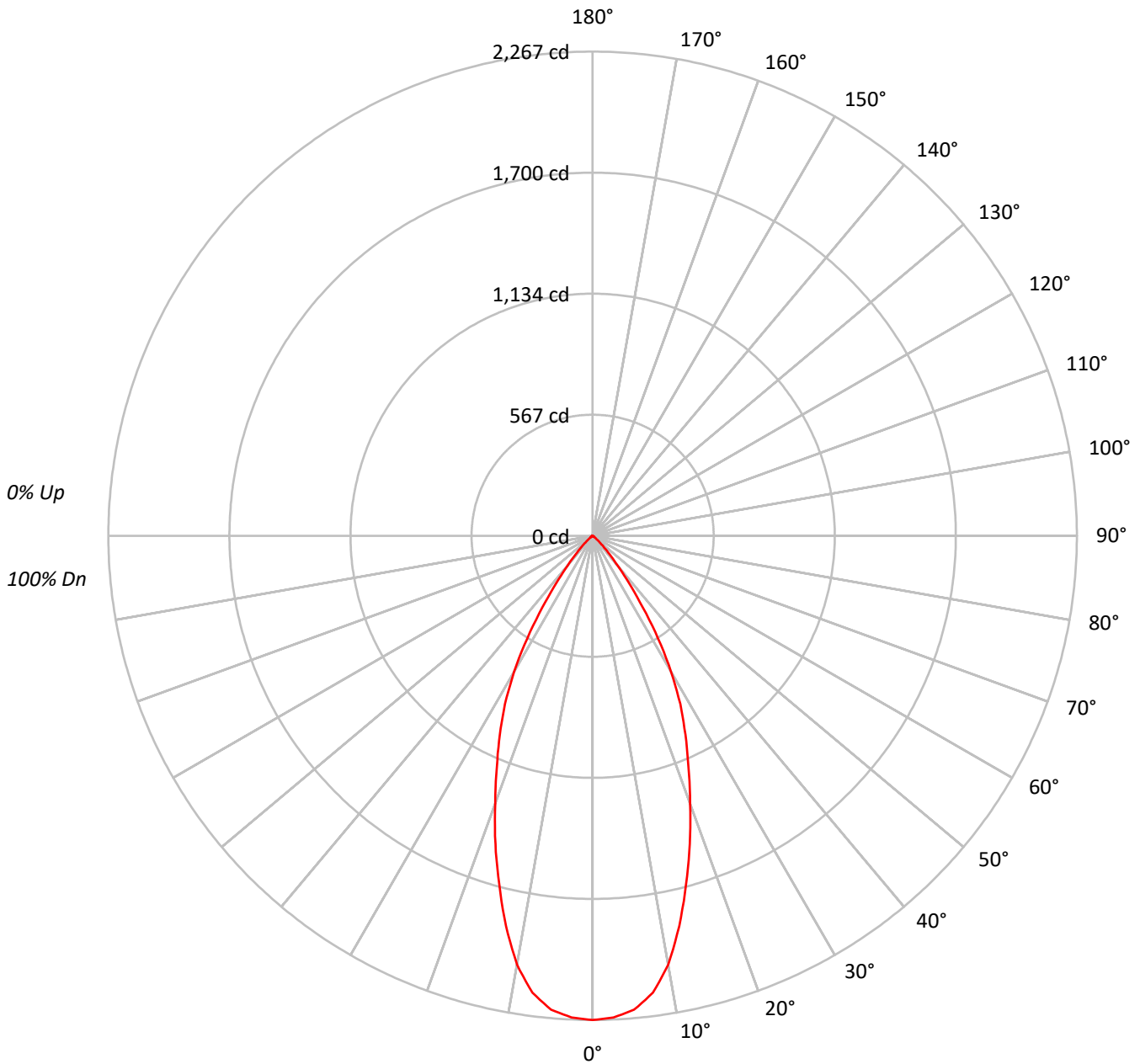
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88			
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83			
4	99	92	86	83	97	91	86	82	88	84	81	86	83	80	85	82	79	78			
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	81	77	75	73			
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69			
7	86	77	71	67	85	76	71	67	75	70	67	74	70	67	73	69	66	65			
8	82	73	67	64	81	72	67	63	71	67	63	70	66	63	70	66	63	61			
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58			
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24551
5°	24210
10°	22422
15°	18947
20°	15362
25°	12272
30°	9179
35°	5407
40°	2573
45°	1072
50°	354
55°	151
60°	108
65°	77
70°	63
75°	42
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	14.0
10°-20°	468.9	31.7
20°-30°	468.8	31.7
30°-40°	262.1	17.7
40°-50°	61.7	4.2
50°-60°	8.6	0.6
60°-70°	3.1	0.2
70°-80°	1.1	0.1
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°	1144.4	77.3
0°-40°	1406.5	95.0
0°-60°	1476.9	99.7
0°-90°	1481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2267	
5°	2227	207
15°	1690	469
25°	1027	469
35°	409	262
45°	70	62
55°	8	9
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2267.2
2.5°	2257.2
5°	2227.2
7.5°	2158.2
10°	2039.2
12.5°	1872.1
15°	1690.1
17.5°	1513.1
20°	1333.1
22.5°	1171.1
25°	1027.1
27.5°	888.1
30°	734.1
32.5°	570.0
35°	409.0
37.5°	276.0
40°	182.0
42.5°	116.0
45°	70.0
47.5°	40.0
50°	21.0
52.5°	12.0
55°	8.0
57.5°	6.0
60°	5.0
62.5°	4.0
65°	3.0
67.5°	2.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
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)