

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: PP201209

Luminaire Tested: **LD4B40D010 EU4B30408035 4LBN1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: PP201209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35248)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B40D010 EU4B30408035 4LBN1LI
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SPECULAR CLEAR TRIM
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3082.9 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.5 / 0.5 / 0.55
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

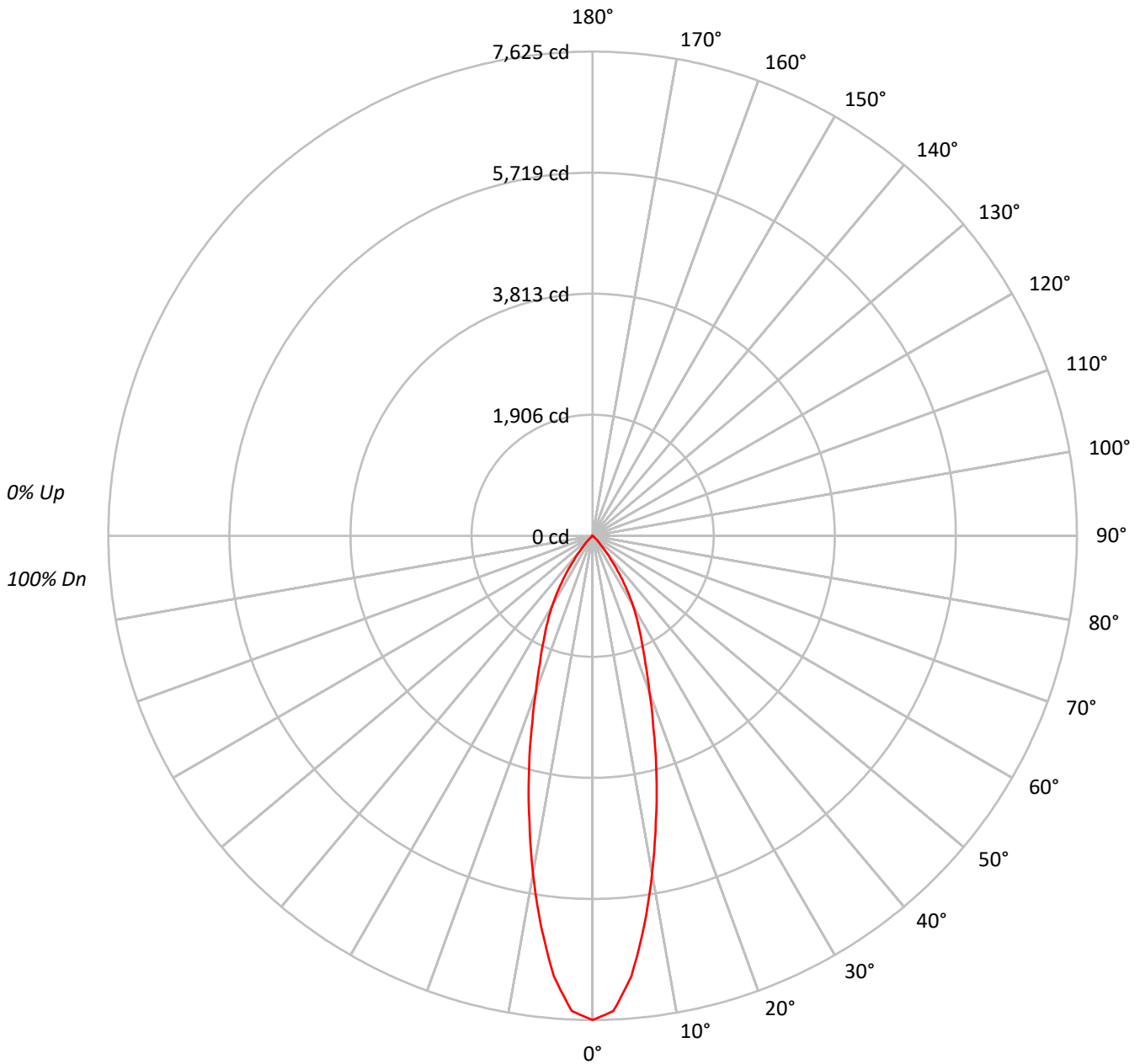
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85	85	85	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73	73	73	73
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	77	73	70	69	69	69	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	62	68	64	61	60	60	60	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82569
5°	75754
10°	59356
15°	43527
20°	30112
25°	21773
30°	15841
35°	9614
40°	4187
45°	1337
50°	179
55°	149
60°	115
65°	67
70°	82
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.4	19.9
10°-20°	1070.2	34.7
20°-30°	847.3	27.5
30°-40°	458.2	14.9
40°-50°	83.6	2.7
50°-60°	7.1	0.2
60°-70°	2.9	0.1
70°-80°	0.3	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°	2530.9	82.1
0°-40°	2989.1	97.0
0°-60°	3079.7	99.9
0°-90°	3082.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3082.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7625	
5°	6969	613
15°	3883	1070
25°	1822	847
35°	727	458
45°	87	84
55°	8	7
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7625.0
2.5°	7492.8
5°	6969.1
7.5°	6204.8
10°	5398.1
12.5°	4596.7
15°	3882.6
17.5°	3187.0
20°	2613.1
22.5°	2171.4
25°	1822.3
27.5°	1541.9
30°	1266.9
32.5°	999.7
35°	727.3
37.5°	486.6
40°	296.2
42.5°	171.9
45°	87.3
47.5°	34.4
50°	10.6
52.5°	10.6
55°	7.9
57.5°	5.3
60°	5.3
62.5°	2.6
65°	2.6
67.5°	2.6
70°	2.6
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)