

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: P35175

Luminaire Tested: **LD4B10D010 EU4B10209027 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P35175
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10D010 EU4B10209027 4LBMGPH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 475.6 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

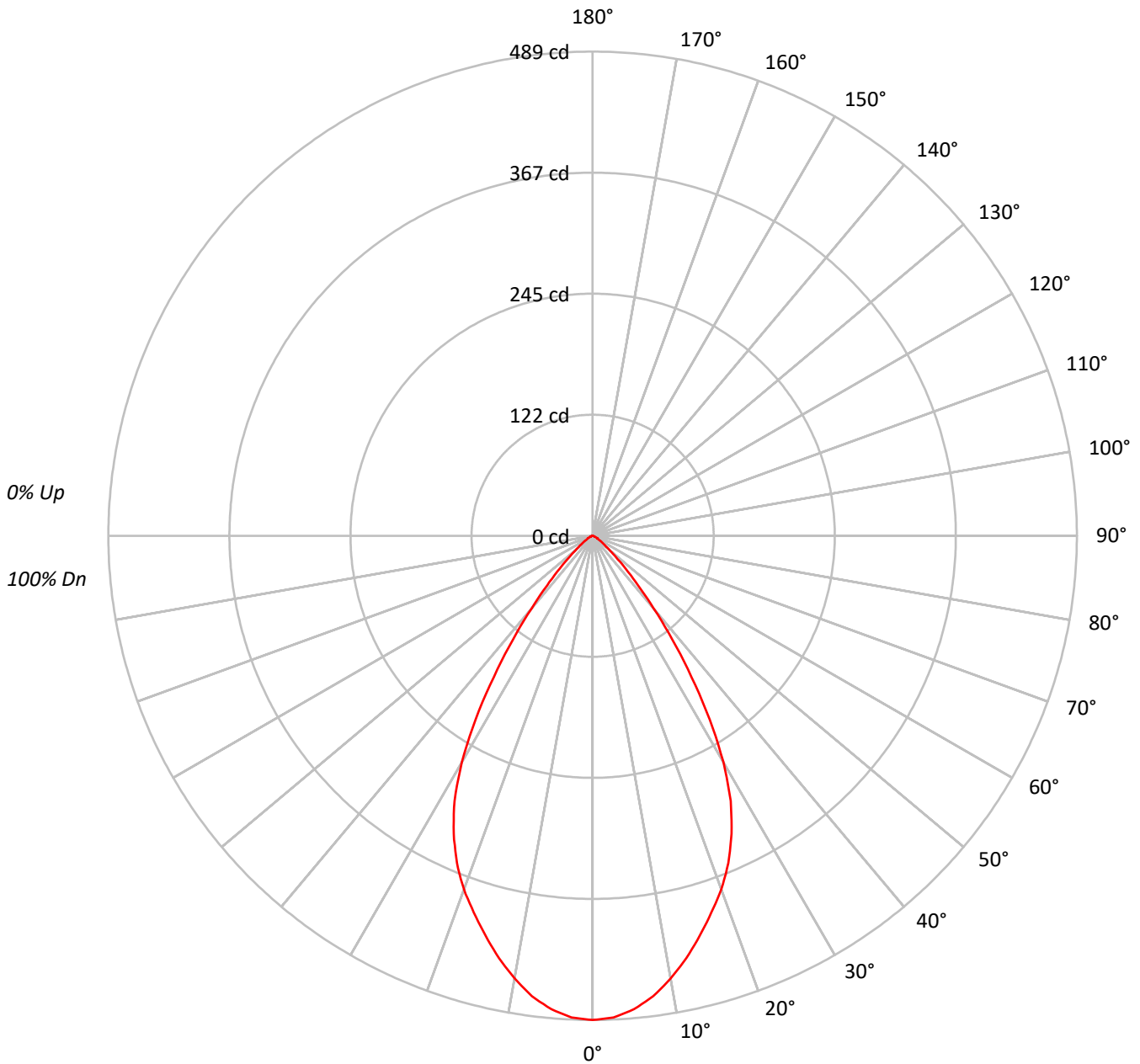
Input Watts (W): 9.73
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86			
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79			
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59			
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55			
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53429
5°	52645
10°	50370
15°	47282
20°	44184
25°	40025
30°	33307
35°	23209
40°	13692
45°	7262
50°	3570
55°	2095
60°	1311
65°	776
70°	639
75°	422
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	9.5
10°-20°	117.3	24.7
20°-30°	150.5	31.6
30°-40°	108.8	22.9
40°-50°	39.0	8.2
50°-60°	10.5	2.2
60°-70°	3.4	0.7
70°-80°	1.1	0.2
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°	312.8	65.8
0°-40°	421.6	88.6
0°-60°	471.1	99.1
0°-90°	475.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	475.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	489	
5°	480	45
15°	418	117
25°	332	151
35°	174	109
45°	47	39
55°	11	11
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	489
2.5°	487
5°	480
7.5°	469
10°	454
12.5°	437
15°	418
17.5°	399
20°	380
22.5°	358
25°	332
27.5°	302
30°	264
32.5°	220
35°	174
37.5°	132
40°	96
42.5°	68
45°	47
47.5°	32
50°	21
52.5°	15
55°	11
57.5°	8
60°	6
62.5°	5
65°	3
67.5°	2
70°	2
72.5°	1
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0



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— 0°-180°







(END OF REPORT)