

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: P205912

Luminaire Tested: **LD4B20D010 EU4B10208030 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20D010 EU4B10208030 4LBSGPH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.8 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

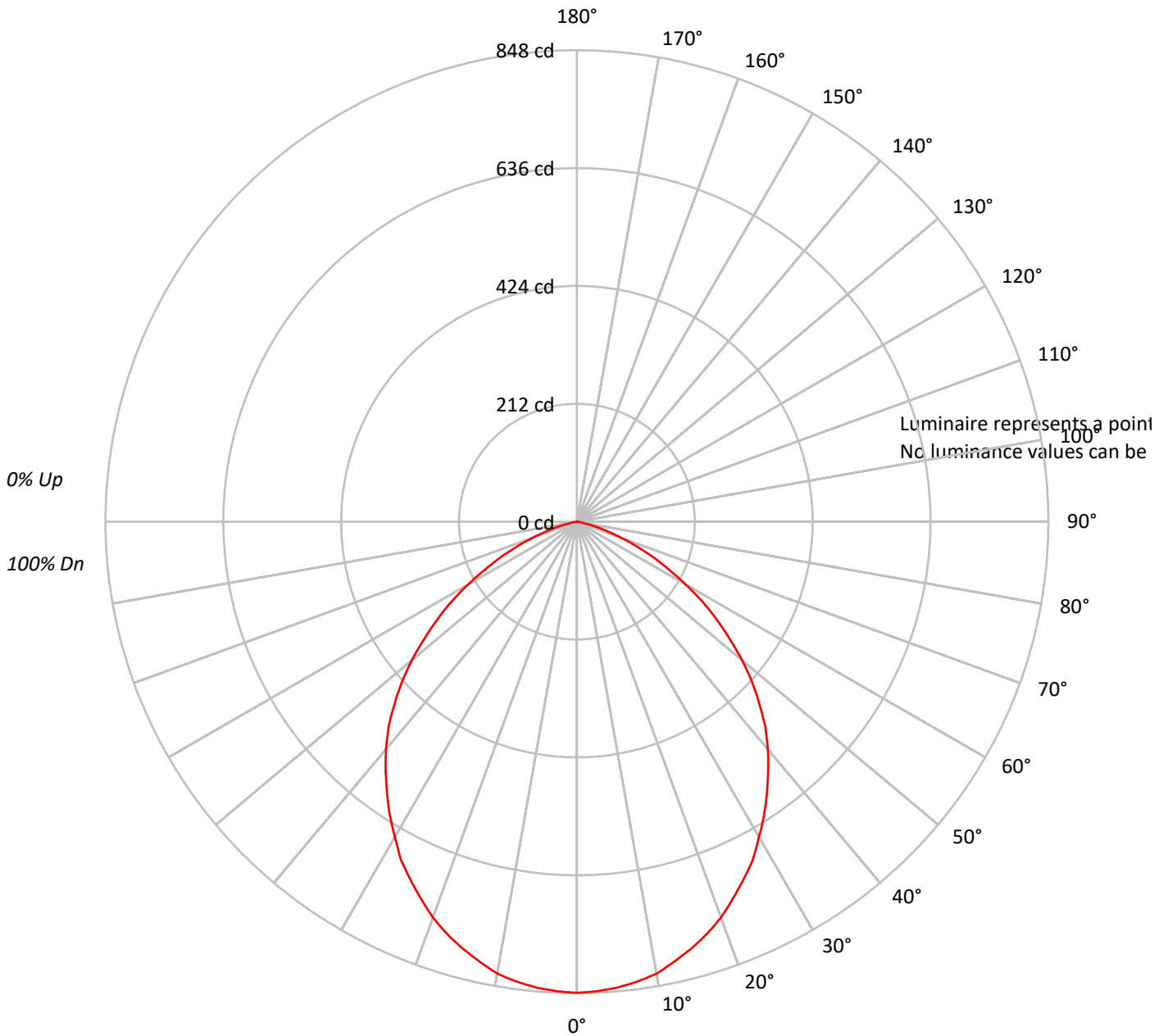
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88			
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32			
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	4.4
10°-20°	224.0	12.3
20°-30°	326.7	17.9
30°-40°	372.5	20.4
40°-50°	357.4	19.6
50°-60°	273.7	15.0
60°-70°	150.2	8.2
70°-80°	39.9	2.2
80°-90°	0.6	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°	630.5	34.6
0°-40°	1003.0	55.0
0°-60°	1634.1	89.5
0°-90°	1824.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	848	
5°	841	80
15°	795	224
25°	710	327
35°	596	373
45°	464	357
55°	307	274
65°	151	150
75°	35	40
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	847.5
2.5°	845.3
5°	841.0
7.5°	834.4
10°	825.6
12.5°	810.3
15°	795.0
17.5°	777.4
20°	757.7
22.5°	733.6
25°	709.6
27.5°	685.5
30°	654.8
32.5°	626.3
35°	595.7
37.5°	565.0
40°	534.4
42.5°	501.5
45°	464.3
47.5°	427.0
50°	387.6
52.5°	346.0
55°	306.6
57.5°	267.2
60°	225.6
62.5°	186.1
65°	151.1
67.5°	116.1
70°	85.4
72.5°	56.9
75°	35.0
77.5°	15.3
80°	4.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)