

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: P207059

Luminaire Tested: **LD4B20D010 EU4B10209727 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207059
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 EU4B10209727 4LBWMW1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH MATTE WHITE 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: 1263.2 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

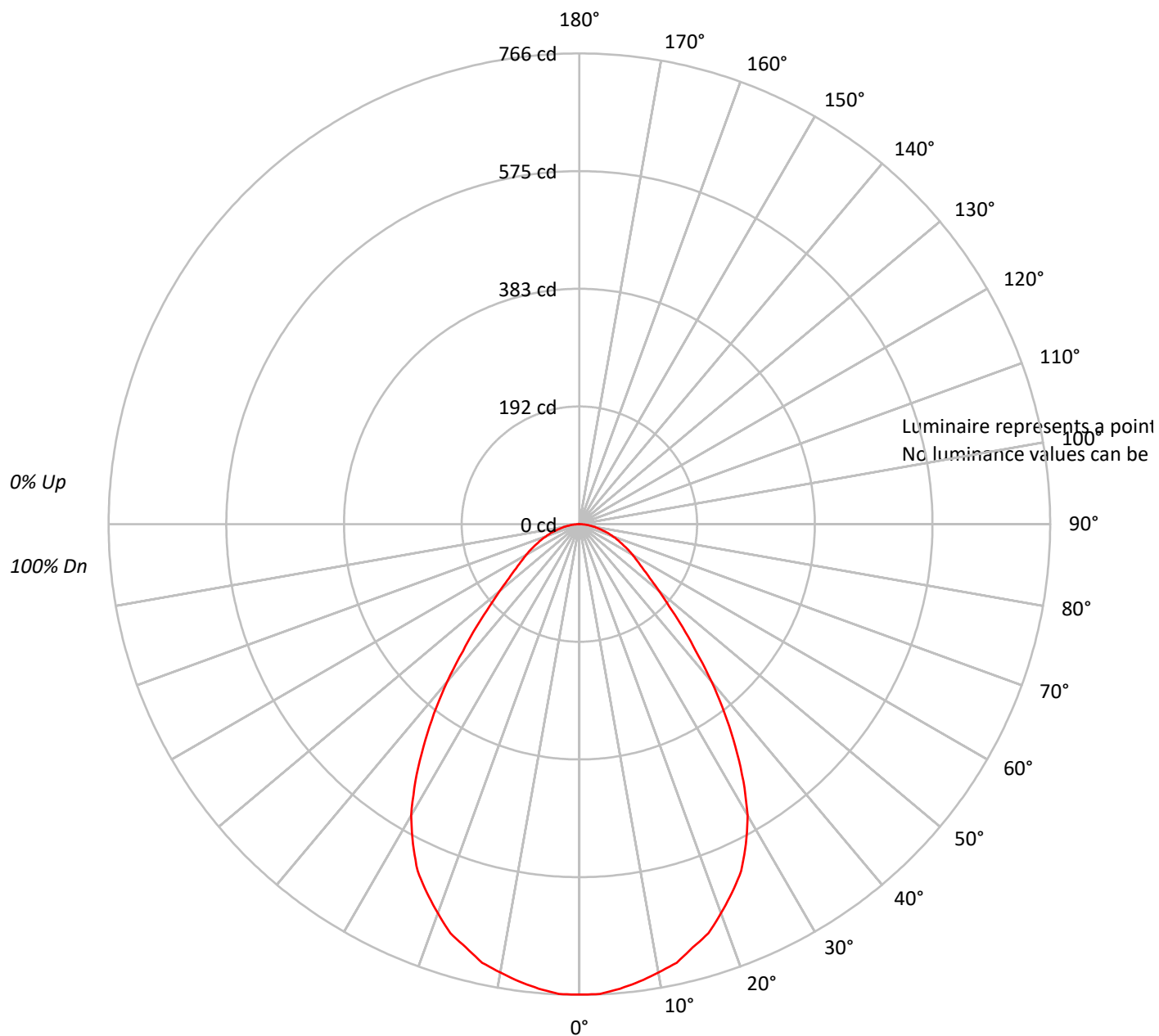
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





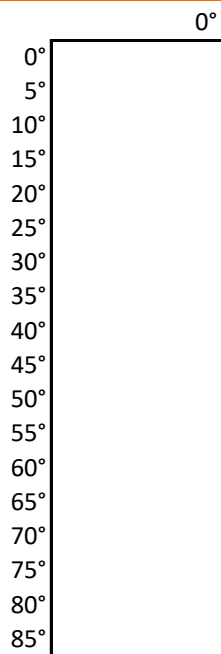
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78	
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69	
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61	
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55	
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50	
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38	
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	5.7
10°-20°	201.0	15.9
20°-30°	284.1	22.5
30°-40°	275.2	21.8
40°-50°	185.7	14.7
50°-60°	115.2	9.1
60°-70°	77.0	6.1
70°-80°	42.1	3.3
80°-90°	11.1	0.9
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°	556.9	44.1
0°-40°	832.1	65.9
0°-60°	1132.9	89.7
0°-90°	1263.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	766	
5°	759	72
15°	713	201
25°	623	284
35°	443	275
45°	238	186
55°	126	115
65°	77	77
75°	39	42
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	765.5
2.5°	765.5
5°	758.9
7.5°	750.7
10°	740.9
12.5°	731.1
15°	713.0
17.5°	698.3
20°	673.7
22.5°	649.1
25°	622.9
27.5°	586.8
30°	547.5
32.5°	496.7
35°	442.6
37.5°	388.5
40°	334.4
42.5°	280.3
45°	237.7
47.5°	198.3
50°	168.8
52.5°	144.2
55°	126.2
57.5°	111.5
60°	100.0
62.5°	88.5
65°	77.0
67.5°	67.2
70°	57.4
72.5°	49.2
75°	39.3
77.5°	31.1
80°	22.9
82.5°	16.4
85°	9.8
87.5°	3.3
90°	0.0



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— 0°-180°







(END OF REPORT)