

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: P206536

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206536
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 EU4B10208040 4LBCSMMS1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 1849.4 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

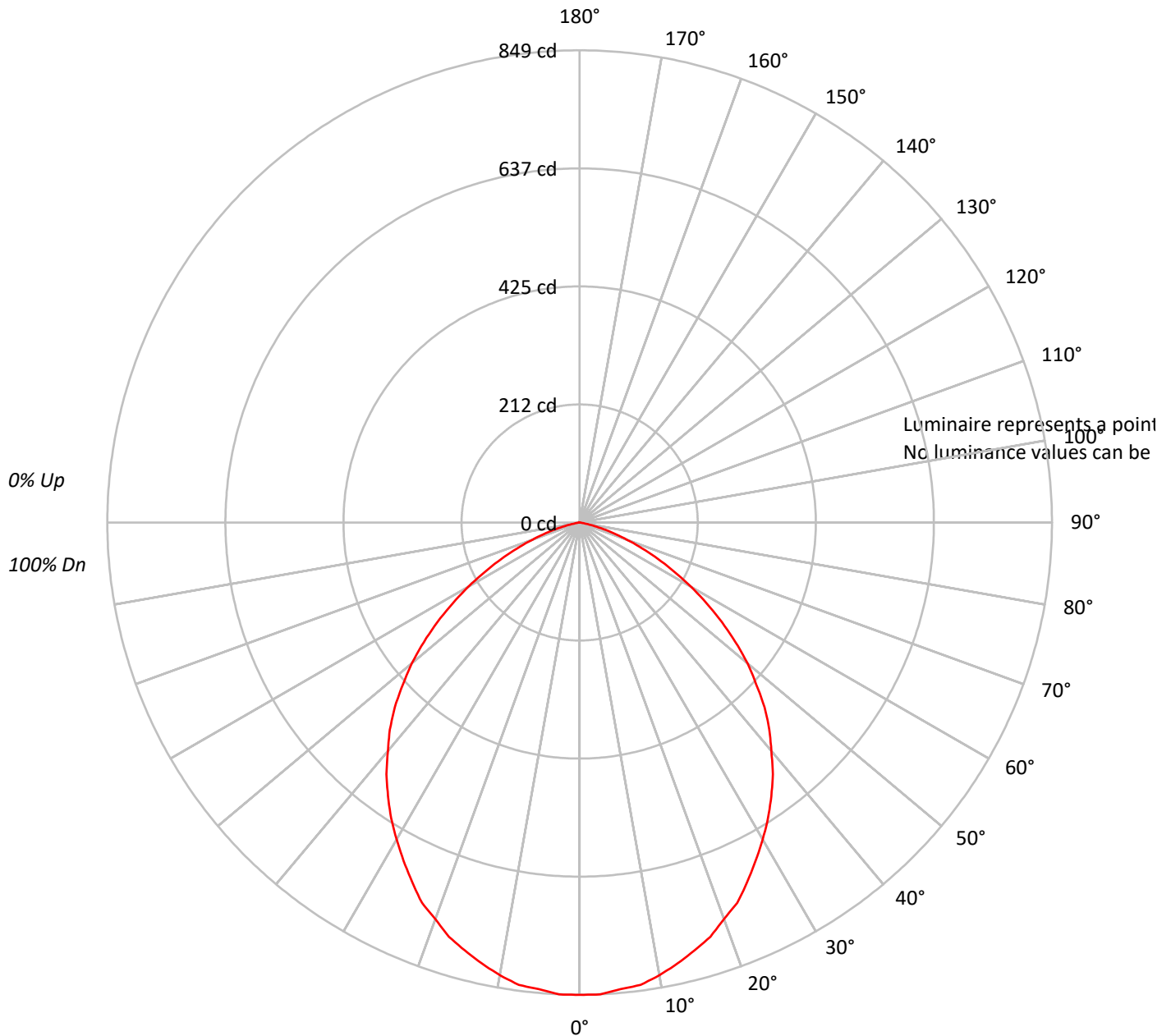
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





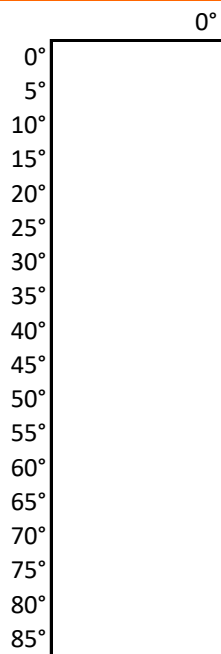
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	105	101	98		100	98	95		97	94	92		93	91	90
2	102	95	89	84		99	93	88	83		90	85	81		86	83	79		83	80	78
3	94	85	77	72		92	83	76	71		80	74	70		77	73	69		75	71	67
4	87	76	68	62		84	74	67	61		72	66	61		70	64	60		68	63	59
5	80	68	60	54		78	67	59	54		65	58	53		63	57	53		61	56	52
6	74	62	54	48		72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	42		67	56	48	42		54	47	42		53	46	42		51	46	41
8	64	52	44	38		63	51	43	38		50	43	38		48	42	38		47	42	37
9	60	48	40	35		59	47	40	34		46	39	34		45	39	34		44	38	34
10	57	44	36	31		55	43	36	31		43	36	31		42	35	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	4.3
10°-20°	224.6	12.1
20°-30°	328.0	17.7
30°-40°	375.2	20.3
40°-50°	360.6	19.5
50°-60°	278.4	15.1
60°-70°	155.4	8.4
70°-80°	45.2	2.4
80°-90°	2.0	0.1
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°	632.6	34.2
0°-40°	1007.8	54.5
0°-60°	1646.8	89.0
0°-90°	1849.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	849	
5°	842	80
15°	797	225
25°	713	328
35°	600	375
45°	470	361
55°	312	278
65°	156	155
75°	40	45
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	849.3
2.5°	849.3
5°	842.1
7.5°	838.5
10°	826.5
12.5°	812.2
15°	796.6
17.5°	781.1
20°	758.4
22.5°	740.4
25°	712.9
27.5°	685.4
30°	657.9
32.5°	630.4
35°	600.5
37.5°	570.6
40°	535.9
42.5°	504.8
45°	470.1
47.5°	430.6
50°	393.5
52.5°	352.9
55°	312.2
57.5°	270.3
60°	230.9
62.5°	191.4
65°	155.5
67.5°	122.0
70°	90.9
72.5°	63.4
75°	39.5
77.5°	20.3
80°	7.2
82.5°	2.4
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)