

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: P207981

Luminaire Tested: **LD4B20D010 EU4B10209027 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207981
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 EU4B10209027 4LBNMW1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW 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: 1186.4 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

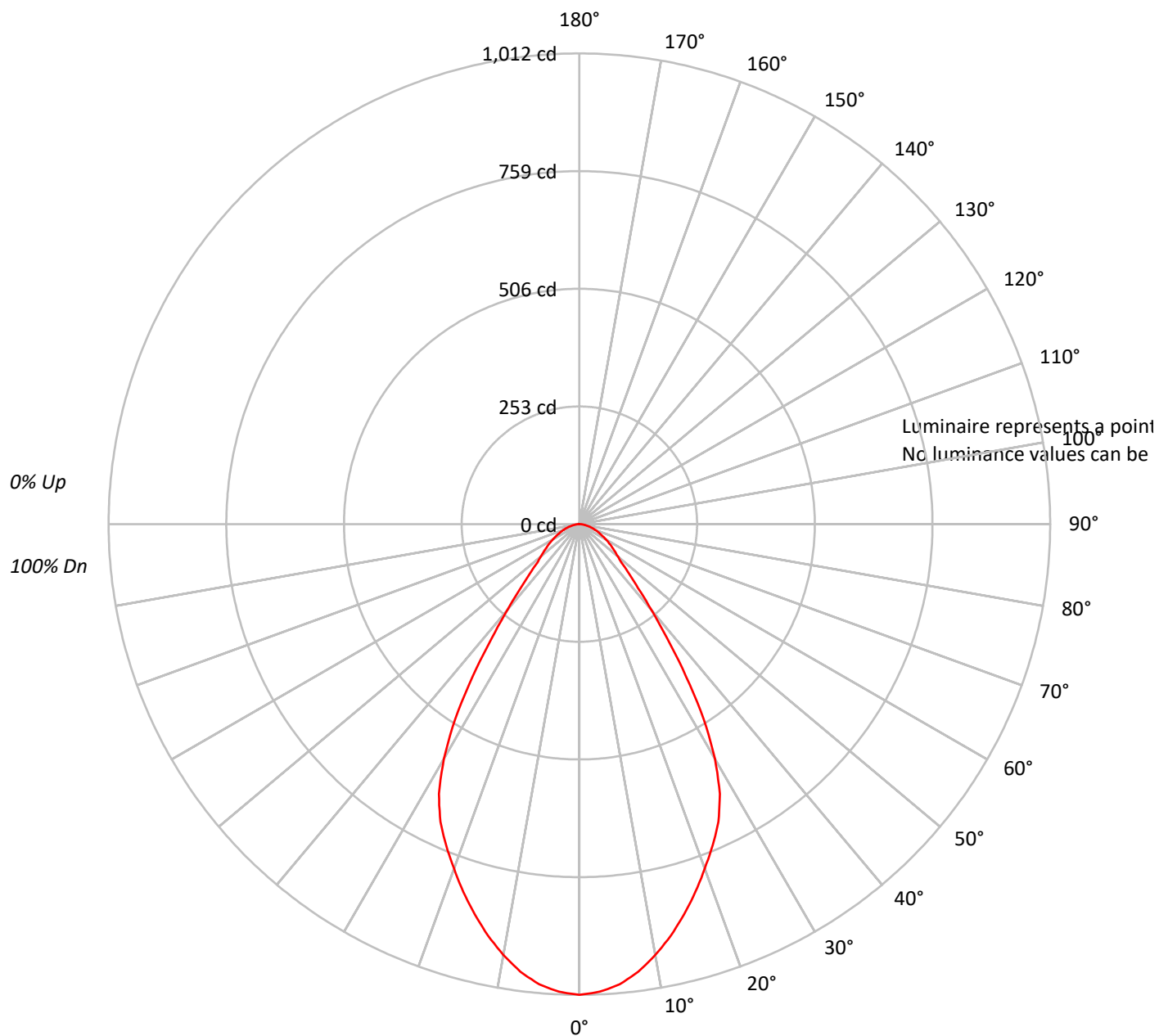
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





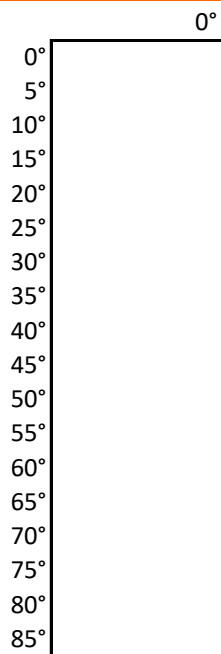
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	112	109	105	103	109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90	103	97	93	89		94	90	87		91	88	85		88	85	83
3	98	90	84	80	96	89	83	79		86	82	78		84	80	76		81	78	75
4	92	83	76	71	90	82	76	71		80	74	70		78	73	69		76	72	68
5	87	77	70	65	85	76	69	64		74	68	64		72	67	63		70	66	63
6	82	71	64	59	80	70	64	59		69	63	58		67	62	58		66	61	58
7	77	66	59	54	75	65	59	54		64	58	54		63	57	53		62	57	53
8	73	62	55	50	71	61	55	50		60	54	50		59	53	49		58	53	49
9	69	58	51	46	68	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43	64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	7.8
10°-20°	243.6	20.5
20°-30°	320.6	27.0
30°-40°	249.6	21.0
40°-50°	121.2	10.2
50°-60°	76.6	6.5
60°-70°	49.4	4.2
70°-80°	25.8	2.2
80°-90°	6.4	0.5
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°	657.4	55.4
0°-40°	907.0	76.4
0°-60°	1104.8	93.1
0°-90°	1186.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1012	
5°	993	93
15°	869	244
25°	707	321
35°	400	250
45°	151	121
55°	85	77
65°	49	49
75°	24	26
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1012.1
2.5°	1006.4
5°	993.3
7.5°	970.6
10°	940.5
12.5°	906.6
15°	868.9
17.5°	829.3
20°	787.8
22.5°	748.2
25°	706.8
27.5°	654.0
30°	582.4
32.5°	497.6
35°	399.6
37.5°	309.1
40°	239.4
42.5°	186.6
45°	150.8
47.5°	122.5
50°	107.4
52.5°	96.1
55°	84.8
57.5°	75.4
60°	66.0
62.5°	56.5
65°	49.0
67.5°	43.3
70°	35.8
72.5°	30.2
75°	24.5
77.5°	18.8
80°	13.2
82.5°	9.4
85°	5.7
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)