

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: P205914

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205914
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 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: 1890.1 lumens
Efficiency: N/A
Efficacy: 90.9 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

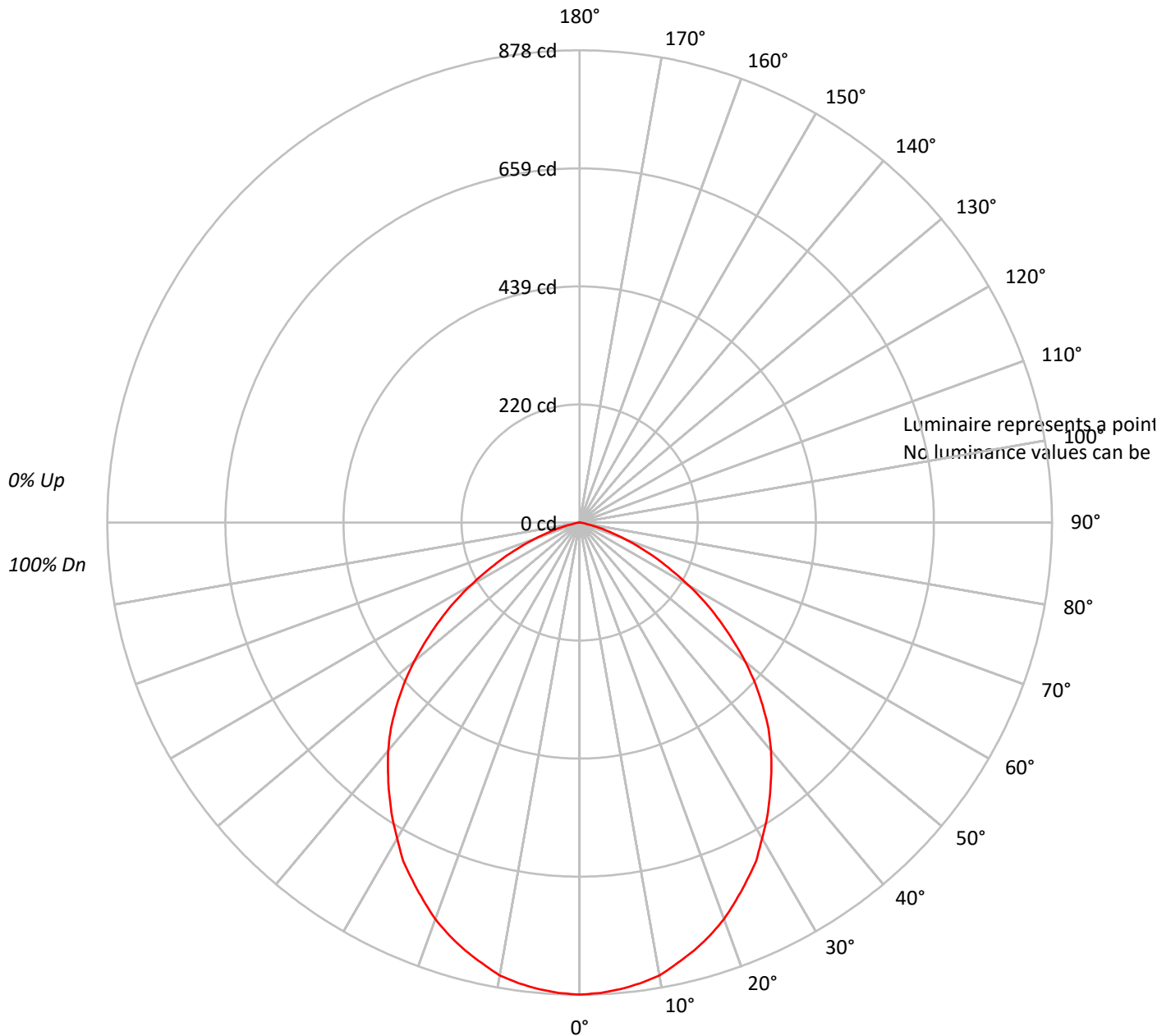
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	4.4
10°-20°	232.0	12.3
20°-30°	338.4	17.9
30°-40°	385.9	20.4
40°-50°	370.1	19.6
50°-60°	283.5	15.0
60°-70°	155.6	8.2
70°-80°	41.4	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°	653.0	34.6
0°-40°	1038.9	55.0
0°-60°	1692.5	89.5
0°-90°	1890.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	878	
5°	871	83
15°	823	232
25°	735	338
35°	617	386
45°	481	370
55°	318	283
65°	156	156
75°	36	41
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	877.8
2.5°	875.6
5°	871.0
7.5°	864.2
10°	855.2
12.5°	839.3
15°	823.4
17.5°	805.3
20°	784.8
22.5°	759.9
25°	734.9
27.5°	710.0
30°	678.2
32.5°	648.7
35°	617.0
37.5°	585.2
40°	553.5
42.5°	519.4
45°	480.9
47.5°	442.3
50°	401.5
52.5°	358.4
55°	317.6
57.5°	276.7
60°	233.6
62.5°	192.8
65°	156.5
67.5°	120.2
70°	88.5
72.5°	59.0
75°	36.3
77.5°	15.9
80°	4.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)