

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: P205919

Luminaire Tested: **LD4B20D010 EU4B10209035 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205919
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 EU4B10209035 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: 1580.9 lumens
Efficiency: N/A
Efficacy: 76.0 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

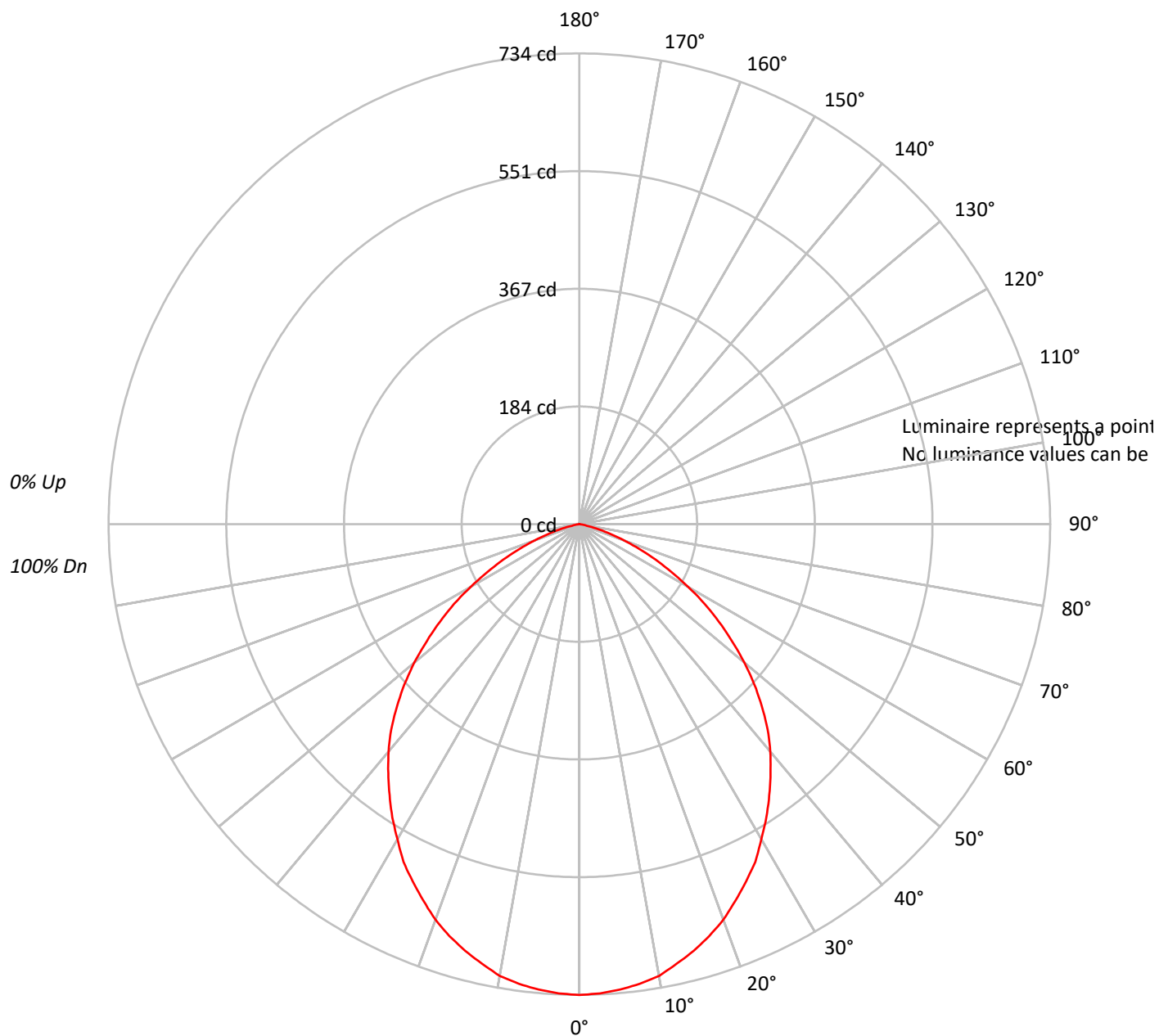
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	69.1	4.4
10°-20°	194.1	12.3
20°-30°	283.0	17.9
30°-40°	322.8	20.4
40°-50°	309.6	19.6
50°-60°	237.1	15.0
60°-70°	130.1	8.2
70°-80°	34.6	2.2
80°-90°	0.5	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°	546.2	34.6
0°-40°	869.0	55.0
0°-60°	1415.7	89.5
0°-90°	1580.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1580.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	734	
5°	729	69
15°	689	194
25°	615	283
35°	516	323
45°	402	310
55°	266	237
65°	131	130
75°	30	35
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	734.3
2.5°	732.4
5°	728.6
7.5°	722.9
10°	715.3
12.5°	702.0
15°	688.7
17.5°	673.5
20°	656.5
22.5°	635.6
25°	614.7
27.5°	593.9
30°	567.3
32.5°	542.6
35°	516.1
37.5°	489.5
40°	462.9
42.5°	434.5
45°	402.2
47.5°	370.0
50°	335.8
52.5°	299.8
55°	265.6
57.5°	231.5
60°	195.4
62.5°	161.3
65°	130.9
67.5°	100.6
70°	74.0
72.5°	49.3
75°	30.4
77.5°	13.3
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)