

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: P205816

Luminaire Tested: **LD4B20D010 EU4B10209040 4LBSWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205816
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 EU4B10209040 4LBSWH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WHEAT 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: 1734.9 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

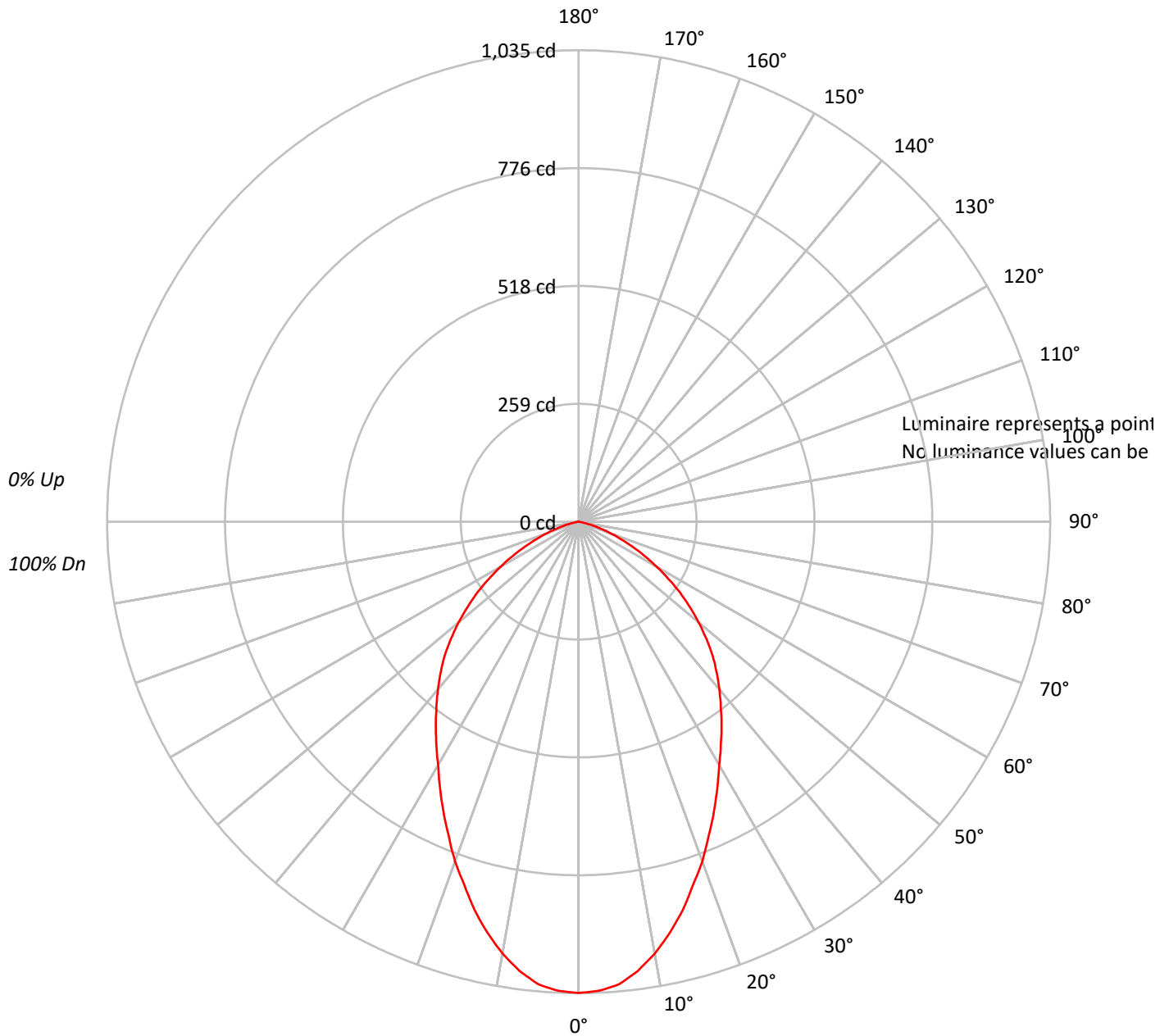
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	73	93	84	78	73		82	76	72			79	74	70			76
4	88	77	70	64	86	76	69	63		74	68	63			72	66	62			69
5	81	70	62	56	79	69	62	56		67	60	55			65	59	55			63
6	76	64	56	50	74	63	55	50		61	54	49			60	54	49			58
7	71	58	51	45	69	58	50	45		56	49	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	40			51	45	40			50
9	62	50	42	37	61	49	42	37		48	41	37			47	41	37			46
10	58	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	5.5
10°-20°	247.0	14.2
20°-30°	323.1	18.6
30°-40°	342.1	19.7
40°-50°	319.1	18.4
50°-60°	241.7	13.9
60°-70°	130.9	7.5
70°-80°	35.1	2.0
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°	665.5	38.4
0°-40°	1007.6	58.1
0°-60°	1568.4	90.4
0°-90°	1734.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1734.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1035	
5°	1020	95
15°	883	247
25°	702	323
35°	547	342
45°	416	319
55°	272	242
65°	131	131
75°	30	35
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1034.7
2.5°	1030.9
5°	1019.5
7.5°	994.8
10°	962.6
12.5°	924.6
15°	882.8
17.5°	835.4
20°	793.6
22.5°	746.1
25°	702.5
27.5°	658.8
30°	617.0
32.5°	580.9
35°	546.8
37.5°	512.6
40°	480.3
42.5°	448.1
45°	415.8
47.5°	379.7
50°	343.6
52.5°	307.6
55°	271.5
57.5°	233.5
60°	197.4
62.5°	163.3
65°	131.0
67.5°	100.6
70°	74.0
72.5°	51.3
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)