

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: P211513

Luminaire Tested: **LE_4B20D010 EC4B10209027 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211513
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: LE_4B20D010 EC4B10209027 4LBPS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC 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

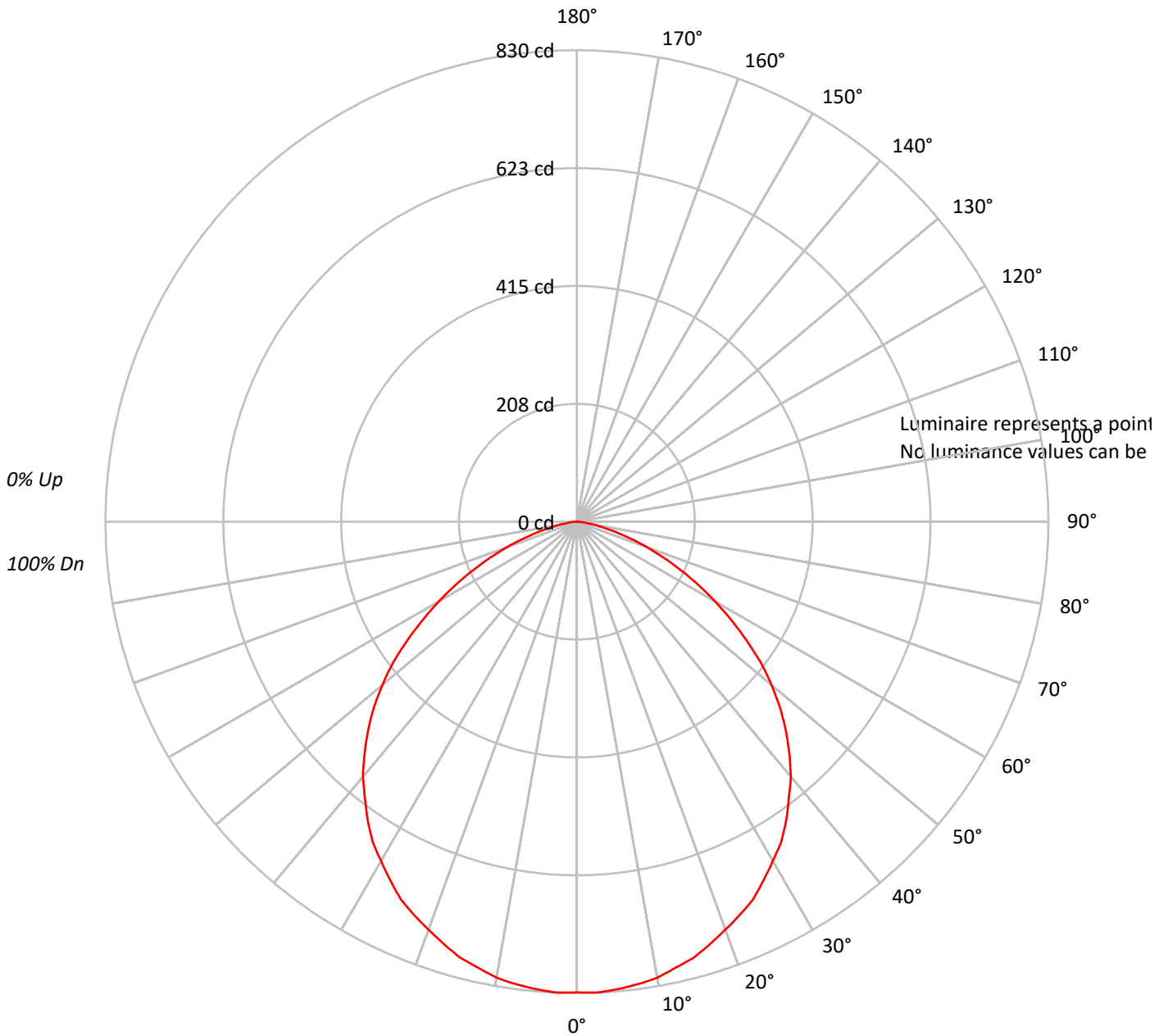
Lumens per Lamp: N/A
Luminaire Lumens: 2056.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100	100	100	100																	
	1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86	86	86	86	86	86																	
	2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74	74	74	74	74	74	74	74																	
	3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63	63	63	63	63	63	63	63	63	63	63																	
	4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54	54	54	54	54	54	54	54	54	54	54																	
	5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47	47	47	47	47	47	47	47	47	47	47																	
	6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42	42	42	42	42	42	42	42	42	42	42																	
	7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37	37	37	37	37	37	37	37	37	37	37																	
	8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33	33	33	33	33	33	33	33	33	33	33																	
	9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30	30	30	30	30	30	30	30	30	30	30																	
	10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27	27	27	27	27	27	27	27	27	27	27																	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.8
10°-20°	223.8	10.9
20°-30°	337.1	16.4
30°-40°	401.1	19.5
40°-50°	400.3	19.5
50°-60°	325.6	15.8
60°-70°	200.3	9.7
70°-80°	77.6	3.8
80°-90°	12.4	0.6
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°	639.4	31.1
0°-40°	1040.5	50.6
0°-60°	1766.4	85.9
0°-90°	2056.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2056.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	829	
5°	826	79
15°	794	224
25°	734	337
35°	642	401
45°	520	400
55°	364	326
65°	201	200
75°	71	78
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	828.7
2.5°	829.9
5°	826.3
7.5°	821.4
10°	815.2
12.5°	804.3
15°	794.5
17.5°	779.9
20°	764.1
22.5°	749.5
25°	733.6
27.5°	711.7
30°	689.7
32.5°	669.0
35°	642.2
37.5°	612.9
40°	586.1
42.5°	553.2
45°	520.4
47.5°	485.0
50°	447.2
52.5°	408.2
55°	364.4
57.5°	321.7
60°	280.3
62.5°	240.1
65°	201.0
67.5°	164.5
70°	130.4
72.5°	98.7
75°	70.6
77.5°	46.3
80°	28.1
82.5°	17.1
85°	9.7
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)