

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: P211716

Luminaire Tested: **LE_4B20D010 EC4B10208040 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211716
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 EC4B10208040 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: 2594.3 lumens
Efficiency: N/A
Efficacy: 124.7 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

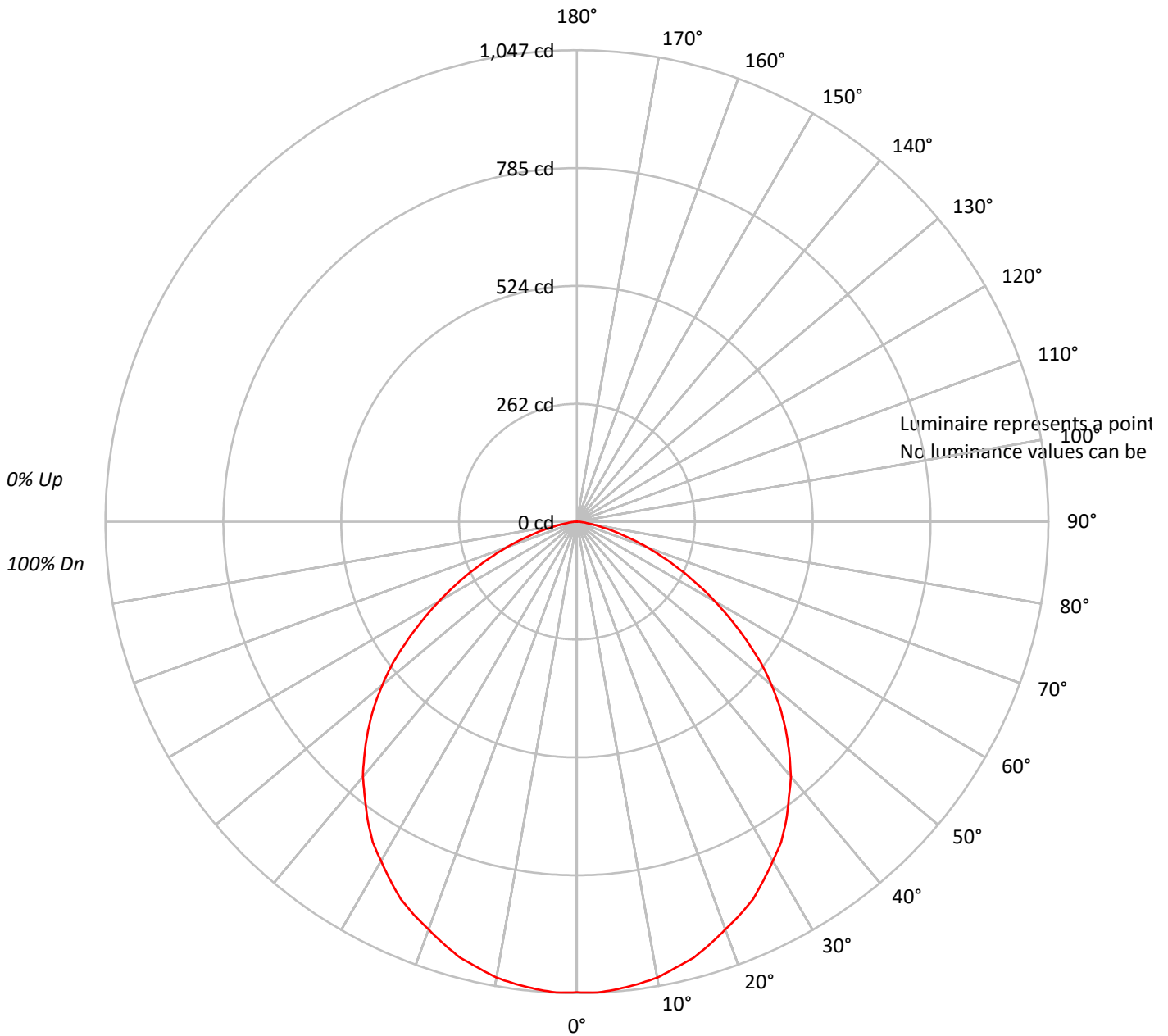
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.8
10°-20°	282.3	10.9
20°-30°	425.2	16.4
30°-40°	505.9	19.5
40°-50°	505.0	19.5
50°-60°	410.7	15.8
60°-70°	252.7	9.7
70°-80°	97.9	3.8
80°-90°	15.7	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°	806.5	31.1
0°-40°	1312.4	50.6
0°-60°	2228.0	85.9
0°-90°	2594.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1045	
5°	1042	99
15°	1002	282
25°	925	425
35°	810	506
45°	656	505
55°	460	411
65°	254	253
75°	89	98
85°	12	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1045.3
2.5°	1046.8
5°	1042.1
7.5°	1036.0
10°	1028.3
12.5°	1014.5
15°	1002.2
17.5°	983.8
20°	963.7
22.5°	945.3
25°	925.3
27.5°	897.7
30°	870.0
32.5°	843.9
35°	810.0
37.5°	773.1
40°	739.4
42.5°	697.9
45°	656.3
47.5°	611.8
50°	564.1
52.5°	514.9
55°	459.6
57.5°	405.8
60°	353.6
62.5°	302.8
65°	253.6
67.5°	207.5
70°	164.5
72.5°	124.5
75°	89.2
77.5°	58.5
80°	35.4
82.5°	21.6
85°	12.3
87.5°	6.1
90°	0.0



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— 0°-180°







(END OF REPORT)