

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: P211763

Luminaire Tested: **LE_4B20D010 EC4B10208050 4LBM1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211763
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 EC4B10208050 4LBM1GPH
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 1313.2 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

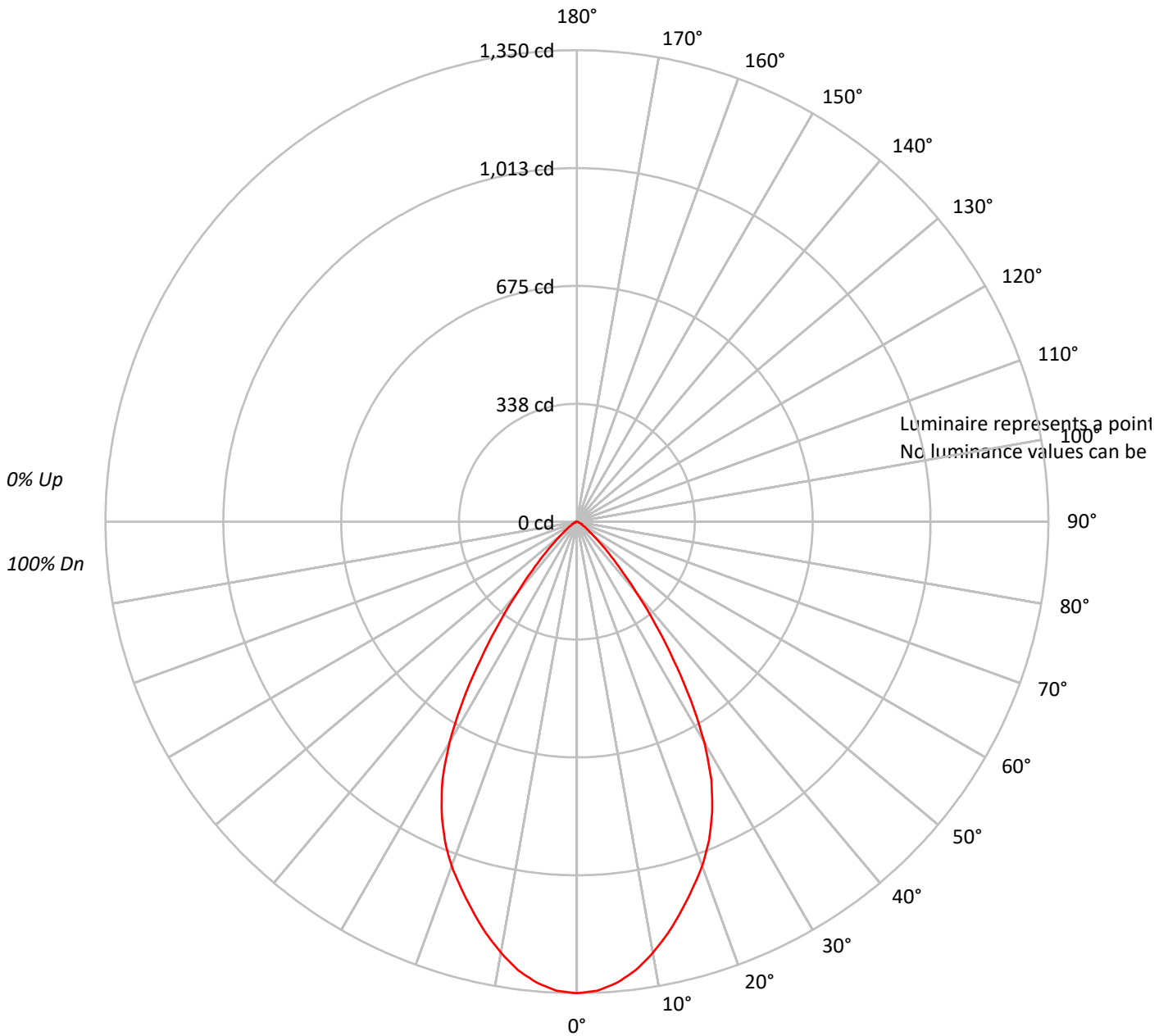
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211763

CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBM1GPH

Luminous Intensity Polar Plot





TEST NUMBER: P211763

CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBM1GPH

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86			
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79			
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59			
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55			
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211763

CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBM1GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	9.5
10°-20°	323.9	24.7
20°-30°	415.5	31.6
30°-40°	300.3	22.9
40°-50°	107.7	8.2
50°-60°	29.1	2.2
60°-70°	9.5	0.7
70°-80°	2.9	0.2
80°-90°	0.0	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°	863.7	65.8
0°-40°	1164.0	88.6
0°-60°	1300.8	99.1
0°-90°	1313.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1350	
5°	1325	124
15°	1154	324
25°	917	416
35°	480	300
45°	130	108
55°	30	29
65°	8	10
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P211763

CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBM1GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1350.0
2.5°	1344.6
5°	1325.2
7.5°	1294.8
10°	1253.4
12.5°	1206.5
15°	1154.0
17.5°	1101.5
20°	1049.1
22.5°	988.3
25°	916.6
27.5°	833.8
30°	728.8
32.5°	607.4
35°	480.4
37.5°	364.5
40°	265.1
42.5°	187.7
45°	129.8
47.5°	88.4
50°	58.0
52.5°	41.4
55°	30.4
57.5°	22.0
60°	16.6
62.5°	13.8
65°	8.2
67.5°	5.6
70°	5.6
72.5°	2.8
75°	2.8
77.5°	2.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)