

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: P207284

Luminaire Tested: **LD4B40D010 EU4B30508050 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207284
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: LD4B40D010 EU4B30508050 4LBMWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W
DL3-44.71W DLE-39.33W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3249.4 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

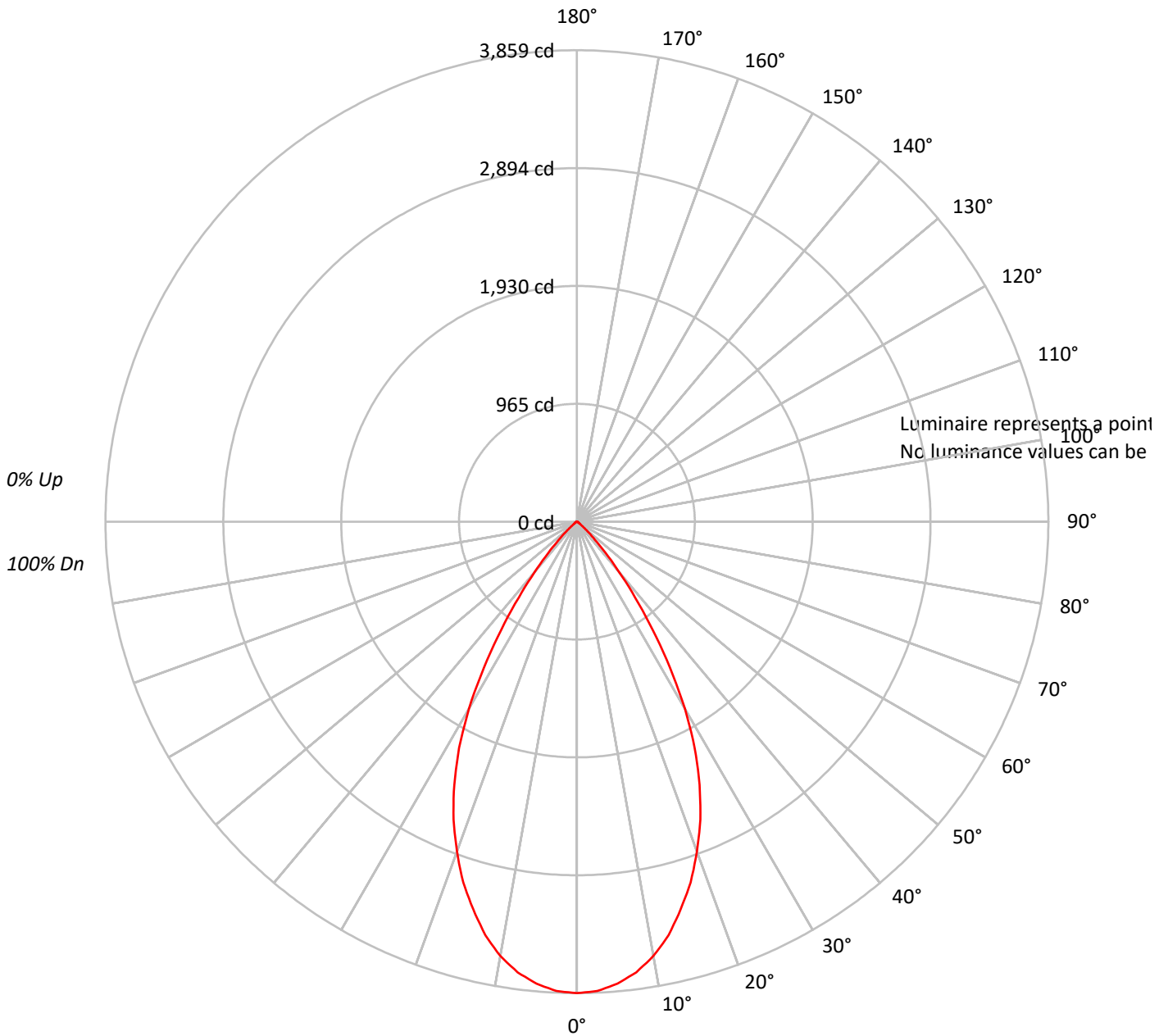
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207284

CATALOG NUMBER: LD4B40D010 EU4B30508050 4LBMWH1

Luminous Intensity Polar Plot





TEST NUMBER: P207284

CATALOG NUMBER: LD4B40D010 EU4B30508050 4LBMWH1

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	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66			
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207284

CATALOG NUMBER: LD4B40D010 EU4B30508050 4LBMWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.5	11.0
10°-20°	916.6	28.2
20°-30°	1075.3	33.1
30°-40°	680.5	20.9
40°-50°	182.3	5.6
50°-60°	25.5	0.8
60°-70°	9.4	0.3
70°-80°	3.1	0.1
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°	2348.4	72.3
0°-40°	3029.0	93.2
0°-60°	3236.8	99.6
0°-90°	3249.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3859	
5°	3797	357
15°	3283	917
25°	2376	1075
35°	1080	681
45°	206	182
55°	24	25
65°	10	9
75°	5	3
85°	0	0
90°	0	



TEST NUMBER: P207284

CATALOG NUMBER: LD4B40D010 EU4B30508050 4LBMWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	3859.1
2.5°	3844.7
5°	3796.7
7.5°	3719.9
10°	3609.5
12.5°	3465.5
15°	3283.1
17.5°	3095.9
20°	2870.3
22.5°	2639.9
25°	2375.9
27.5°	2087.9
30°	1766.3
32.5°	1416.0
35°	1080.0
37.5°	782.4
40°	537.6
42.5°	345.6
45°	206.4
47.5°	115.2
50°	62.4
52.5°	33.6
55°	24.0
57.5°	19.2
60°	14.4
62.5°	14.4
65°	9.6
67.5°	4.8
70°	4.8
72.5°	4.8
75°	4.8
77.5°	0.0
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)