

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: P212434

Luminaire Tested: **LSR4B40D010BZ EC4B30509035 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212434
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: LSR4B40D010BZ EC4B30509035 4LBMWH1
Description: PORTFOLIO 4 INCH CYLINDER
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: 2718.9 lumens
Efficiency: N/A
Efficacy: 65.0 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

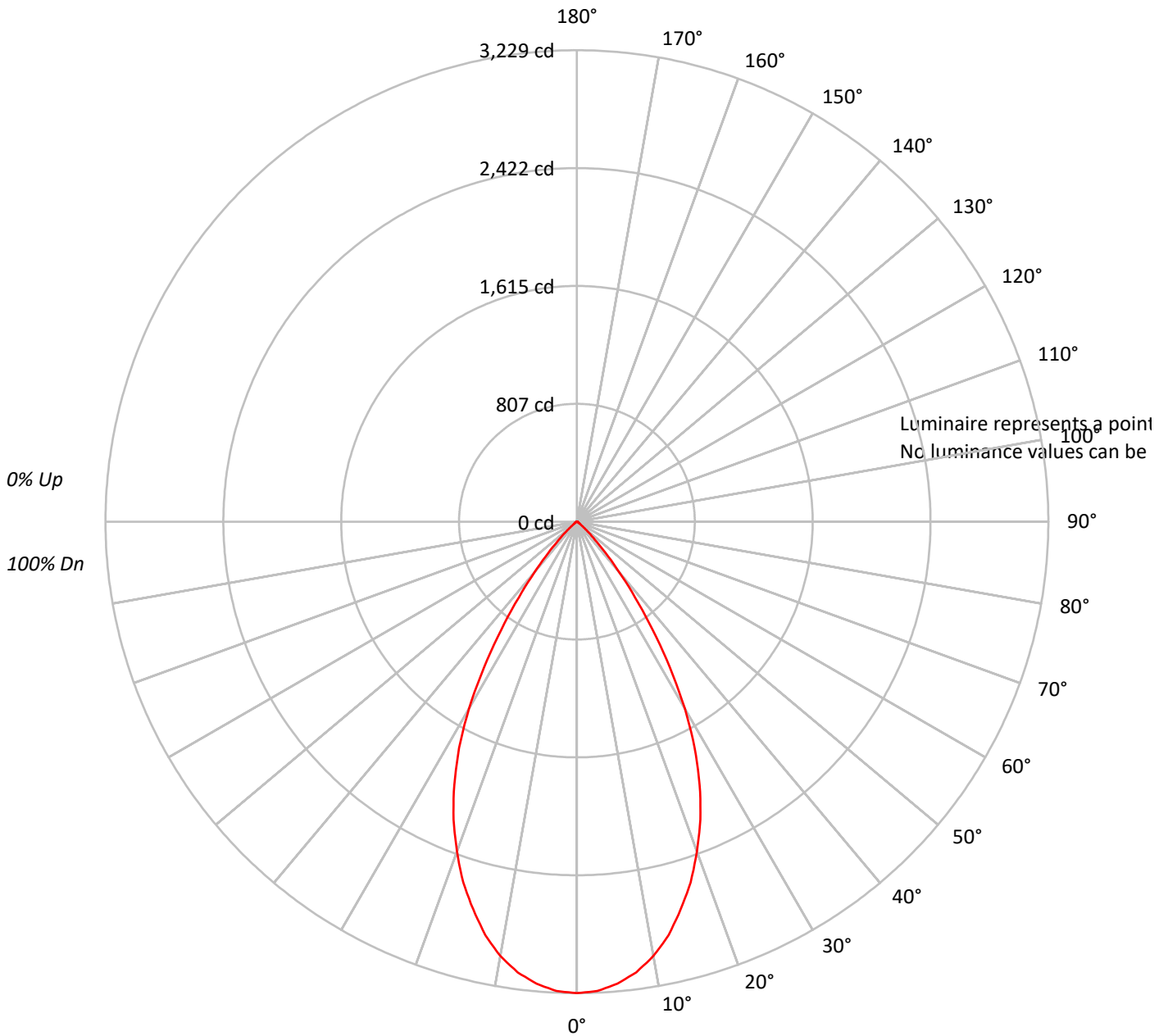
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212434

CATALOG NUMBER: LSR4B40D010BZ EC4B30509035 4LBMWH1

Luminous Intensity Polar Plot





TEST NUMBER: P212434

CATALOG NUMBER: LSR4B40D010BZ EC4B30509035 4LBMWH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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: P212434

CATALOG NUMBER: LSR4B40D010BZ EC4B30509035 4LBMWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	11.0
10°-20°	767.0	28.2
20°-30°	899.8	33.1
30°-40°	569.4	20.9
40°-50°	152.5	5.6
50°-60°	21.3	0.8
60°-70°	7.9	0.3
70°-80°	2.6	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°	1965.1	72.3
0°-40°	2534.5	93.2
0°-60°	2708.4	99.6
0°-90°	2718.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3229	
5°	3177	298
15°	2747	767
25°	1988	900
35°	904	569
45°	173	153
55°	20	21
65°	8	8
75°	4	3
85°	0	0
90°	0	



TEST NUMBER: P212434

CATALOG NUMBER: LSR4B40D010BZ EC4B30509035 4LBMWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	3229.1
2.5°	3217.1
5°	3176.9
7.5°	3112.6
10°	3020.3
12.5°	2899.8
15°	2747.2
17.5°	2590.5
20°	2401.8
22.5°	2209.0
25°	1988.1
27.5°	1747.1
30°	1478.0
32.5°	1184.8
35°	903.7
37.5°	654.7
40°	449.8
42.5°	289.2
45°	172.7
47.5°	96.4
50°	52.2
52.5°	28.1
55°	20.1
57.5°	16.1
60°	12.0
62.5°	12.0
65°	8.0
67.5°	4.0
70°	4.0
72.5°	4.0
75°	4.0
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)