

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: P212246

Luminaire Tested: **LSR4B40D010BZ EC4B30508027 4LBWB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212246
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 EC4B30508027 4LBWB1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR BLACK 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: 1911.5 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

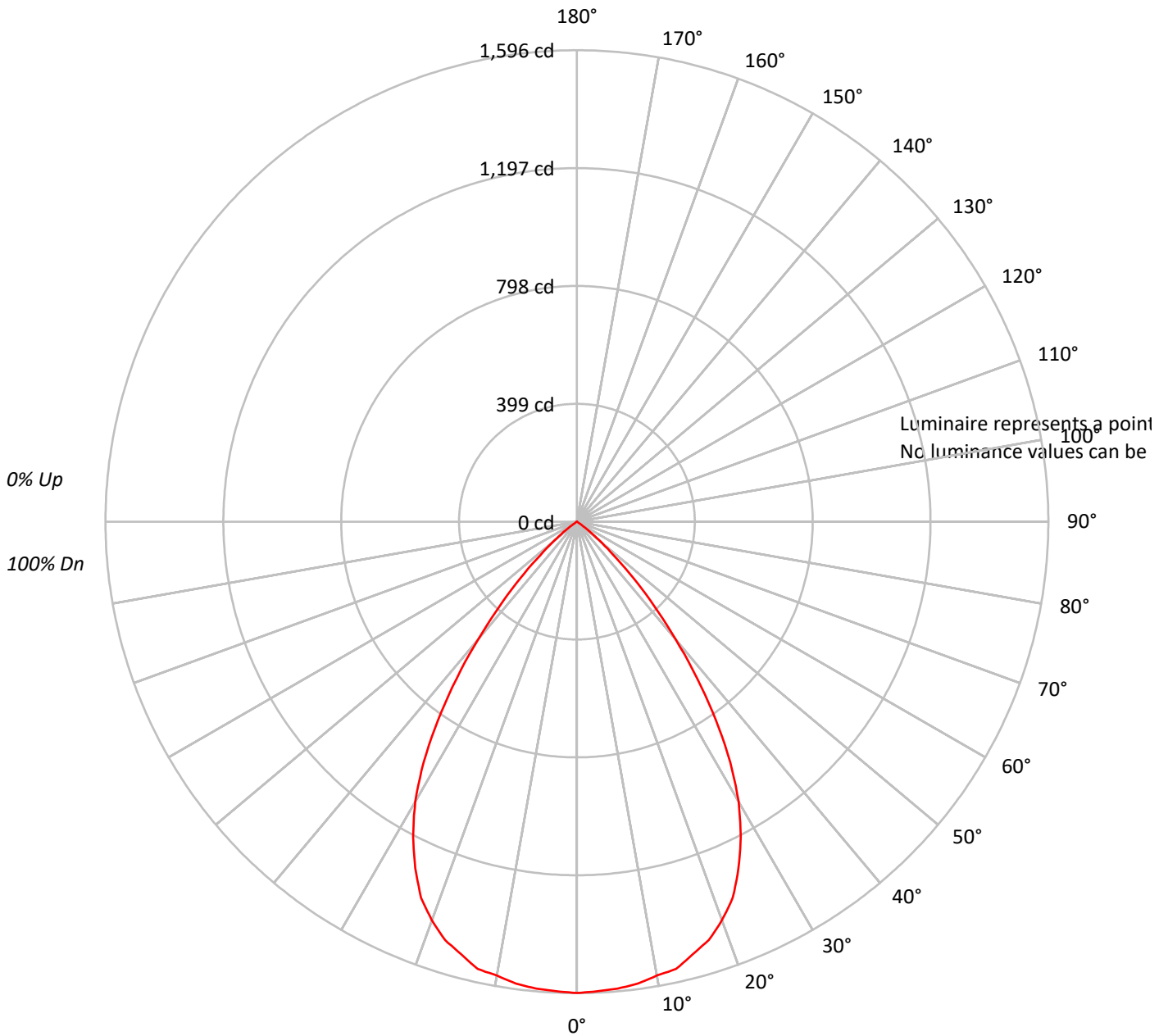
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212246

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWB1

Luminous Intensity Polar Plot





TEST NUMBER: P212246

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWB1

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																			100																	
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			93																	
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86																			86																	
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79																			79																	
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72																			72																	
5	90	81	75	70	89	80	74	70	79	73	69	77	72	69	75	71	68	67																			67																	
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	70	66	63	62																			62																	
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																			57																	
8	76	66	60	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																			53																	
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49																			49																	
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46																			46																	

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212246

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	7.9
10°-20°	426.9	22.3
20°-30°	590.0	30.9
30°-40°	505.2	26.4
40°-50°	214.7	11.2
50°-60°	24.0	1.3
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	1167.5	61.1
0°-40°	1672.7	87.5
0°-60°	1911.5	100.0
0°-90°	1911.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1596	
5°	1587	151
15°	1516	427
25°	1294	590
35°	820	505
45°	270	215
55°	13	24
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P212246

CATALOG NUMBER: LSR4B40D010BZ EC4B30508027 4LBWB1

CANDELA DISTRIBUTION (FULL):

0°	
0°	1595.6
2.5°	1591.1
5°	1586.7
7.5°	1577.8
10°	1560.1
12.5°	1551.2
15°	1515.8
17.5°	1484.8
20°	1436.0
22.5°	1378.4
25°	1294.2
27.5°	1201.1
30°	1094.7
32.5°	966.2
35°	819.9
37.5°	669.2
40°	518.6
42.5°	385.6
45°	270.4
47.5°	168.4
50°	97.5
52.5°	48.8
55°	13.3
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)