

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: P212198

Luminaire Tested: **LSR4B40D010BZ EC4B30509024 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212198
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 EC4B30509024 4LBMGPH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH GRAPHITE HAZE 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: 1594.7 lumens
Efficiency: N/A
Efficacy: 38.2 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

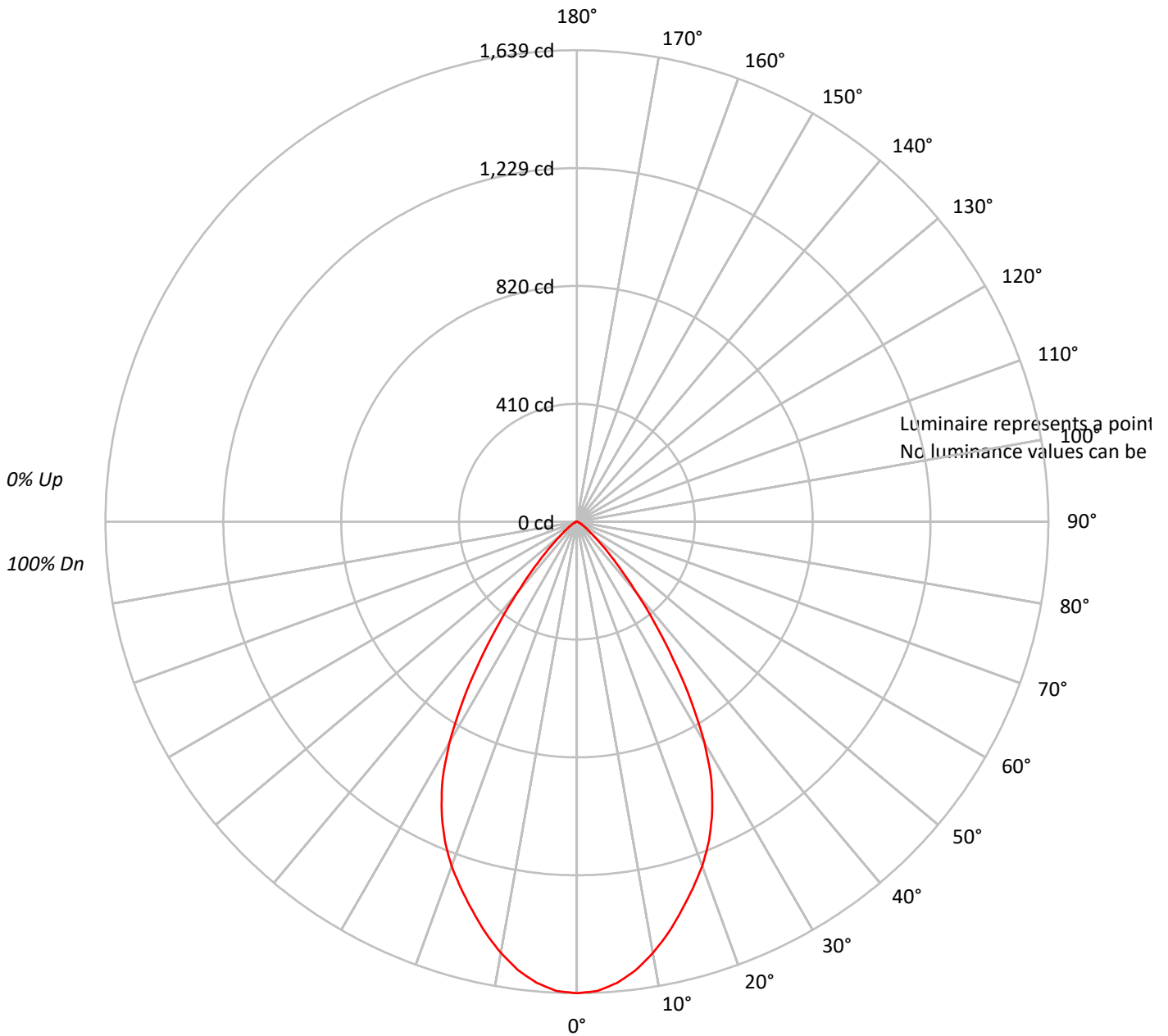
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212198

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBMGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P212198

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBMGPH1

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	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: P212198

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBMGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	9.5
10°-20°	393.4	24.7
20°-30°	504.6	31.6
30°-40°	364.7	22.9
40°-50°	130.8	8.2
50°-60°	35.3	2.2
60°-70°	11.6	0.7
70°-80°	3.6	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°	1048.8	65.8
0°-40°	1413.5	88.6
0°-60°	1579.6	99.1
0°-90°	1594.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1639	
5°	1609	151
15°	1401	393
25°	1113	505
35°	583	365
45°	158	131
55°	37	35
65°	10	12
75°	3	4
85°	0	0
90°	0	



TEST NUMBER: P212198

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBMGPH1

CANDELA DISTRIBUTION (FULL):

0°	
0°	1639.4
2.5°	1632.7
5°	1609.3
7.5°	1572.4
10°	1522.1
12.5°	1465.1
15°	1401.4
17.5°	1337.7
20°	1274.0
22.5°	1200.2
25°	1113.1
27.5°	1012.5
30°	885.1
32.5°	737.6
35°	583.4
37.5°	442.5
40°	321.9
42.5°	228.0
45°	157.6
47.5°	107.3
50°	70.4
52.5°	50.3
55°	36.9
57.5°	26.8
60°	20.1
62.5°	16.8
65°	10.1
67.5°	6.7
70°	6.7
72.5°	3.4
75°	3.4
77.5°	3.4
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)