

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: P212057

Luminaire Tested: **LSR4B30D010BZ EC4B30509035 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212057
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: LSR4B30D010BZ EC4B30509035 4LBMWH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1941.2 lumens
Efficiency: N/A
Efficacy: 69.3 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

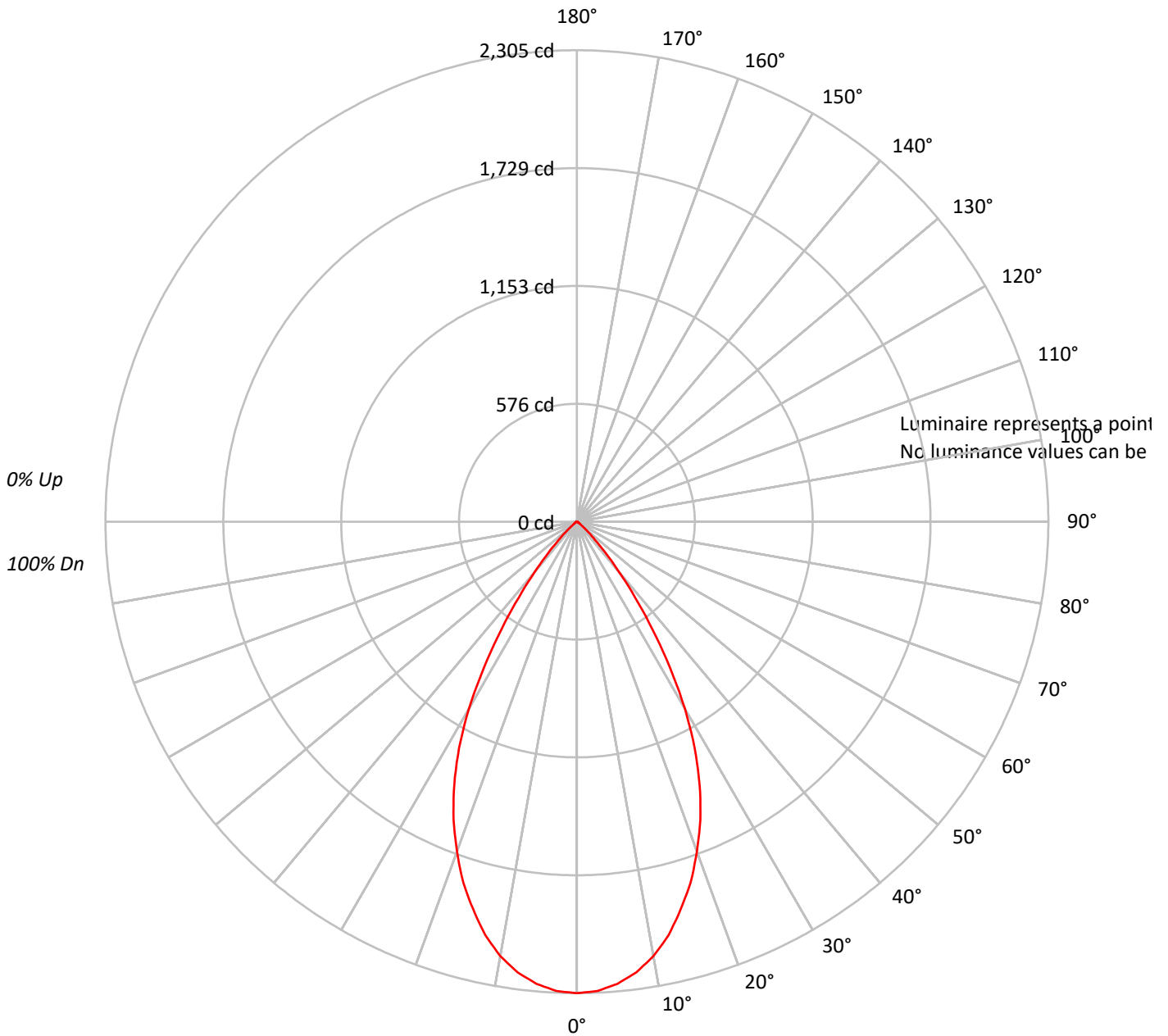
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212057

CATALOG NUMBER: LSR4B30D010BZ EC4B30509035 4LBMWH1

Luminous Intensity Polar Plot





TEST NUMBER: P212057

CATALOG NUMBER: LSR4B30D010BZ 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: P212057

CATALOG NUMBER: LSR4B30D010BZ EC4B30509035 4LBMWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.0	11.0
10°-20°	547.6	28.2
20°-30°	642.4	33.1
30°-40°	406.6	20.9
40°-50°	108.9	5.6
50°-60°	15.2	0.8
60°-70°	5.6	0.3
70°-80°	1.9	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°	1403.0	72.3
0°-40°	1809.5	93.2
0°-60°	1933.6	99.6
0°-90°	1941.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2305	
5°	2268	213
15°	1961	548
25°	1419	642
35°	645	407
45°	123	109
55°	14	15
65°	6	6
75°	3	2
85°	0	0
90°	0	



TEST NUMBER: P212057

CATALOG NUMBER: LSR4B30D010BZ EC4B30509035 4LBMWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2305.4
2.5°	2296.8
5°	2268.1
7.5°	2222.2
10°	2156.3
12.5°	2070.2
15°	1961.3
17.5°	1849.5
20°	1714.7
22.5°	1577.1
25°	1419.4
27.5°	1247.3
30°	1055.2
32.5°	845.9
35°	645.2
37.5°	467.4
40°	321.1
42.5°	206.5
45°	123.3
47.5°	68.8
50°	37.3
52.5°	20.1
55°	14.3
57.5°	11.5
60°	8.6
62.5°	8.6
65°	5.7
67.5°	2.9
70°	2.9
72.5°	2.9
75°	2.9
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)