

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: P212147

Luminaire Tested: **LSR4B30D010BZ EC4B30508050 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212147
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 EC4B30508050 4LBNH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 1888.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

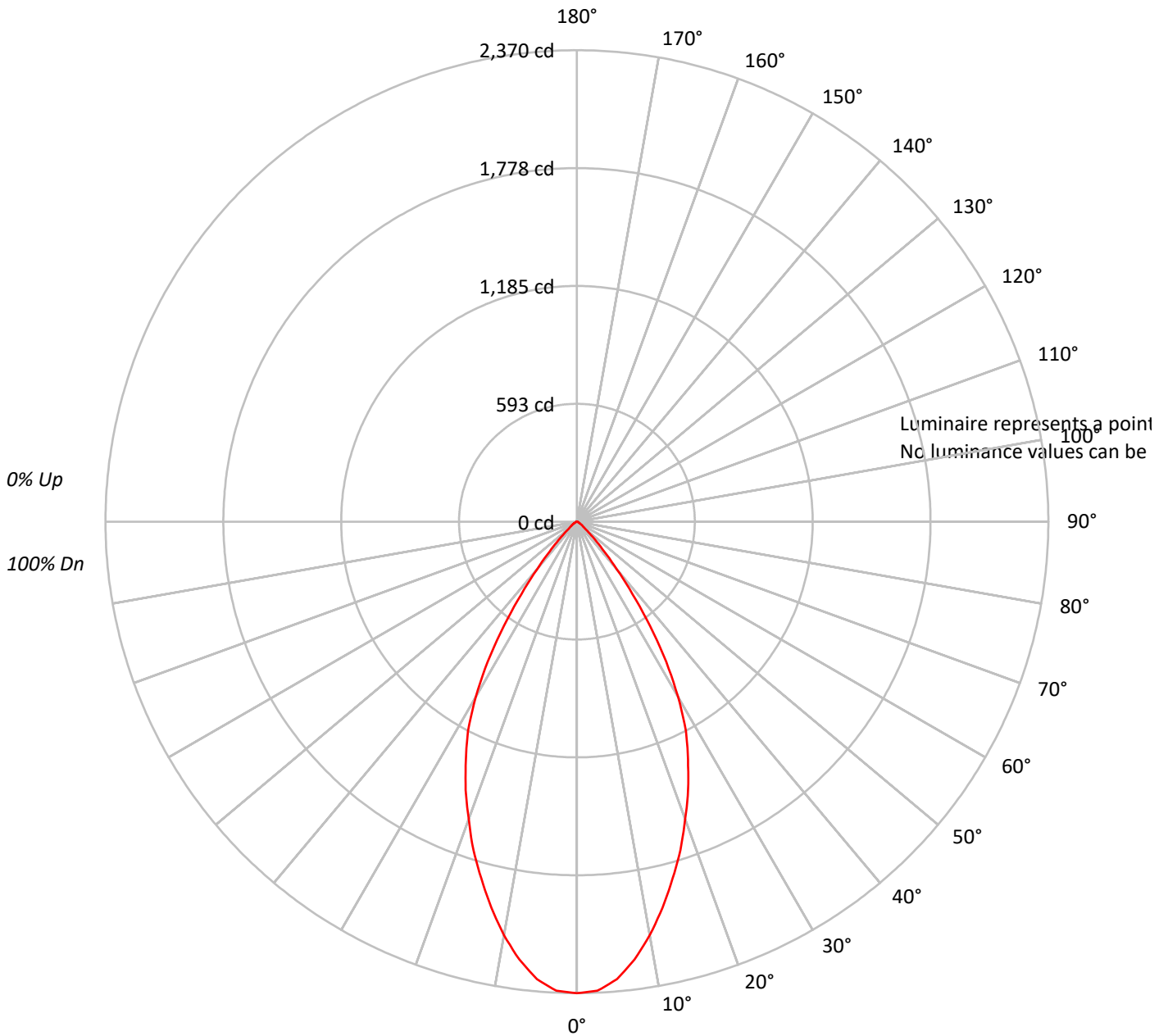
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93																				
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81																		
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75																		
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70																		
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65																		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61																		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																		
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53																		
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50																		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	11.3
10°-20°	518.8	27.5
20°-30°	602.3	31.9
30°-40°	398.9	21.1
40°-50°	111.9	5.9
50°-60°	28.1	1.5
60°-70°	10.5	0.6
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°	1335.0	70.7
0°-40°	1733.9	91.8
0°-60°	1873.9	99.3
0°-90°	1888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1888.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2370	
5°	2309	214
15°	1857	519
25°	1320	602
35°	640	399
45°	130	112
55°	31	28
65°	10	11
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2370.5
2.5°	2360.3
5°	2309.0
7.5°	2220.0
10°	2110.6
12.5°	1987.4
15°	1857.4
17.5°	1730.9
20°	1590.6
22.5°	1460.6
25°	1320.4
27.5°	1187.0
30°	1015.9
32.5°	834.7
35°	639.7
37.5°	458.4
40°	311.3
42.5°	201.8
45°	130.0
47.5°	78.7
50°	51.3
52.5°	37.6
55°	30.8
57.5°	23.9
60°	17.1
62.5°	13.7
65°	10.3
67.5°	6.8
70°	6.8
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



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— 0°-180°







(END OF REPORT)