

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: P204168

Luminaire Tested: **LSR6B20D010BZ EC6B10209027 6LBSH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204168
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: LSR6B20D010BZ EC6B10209027 6LBSH1
Description: PORTFOLIO 6IN CYLINDER
SHALLOW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W
DL3-21.8 6 W DLE-22.46 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1742.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

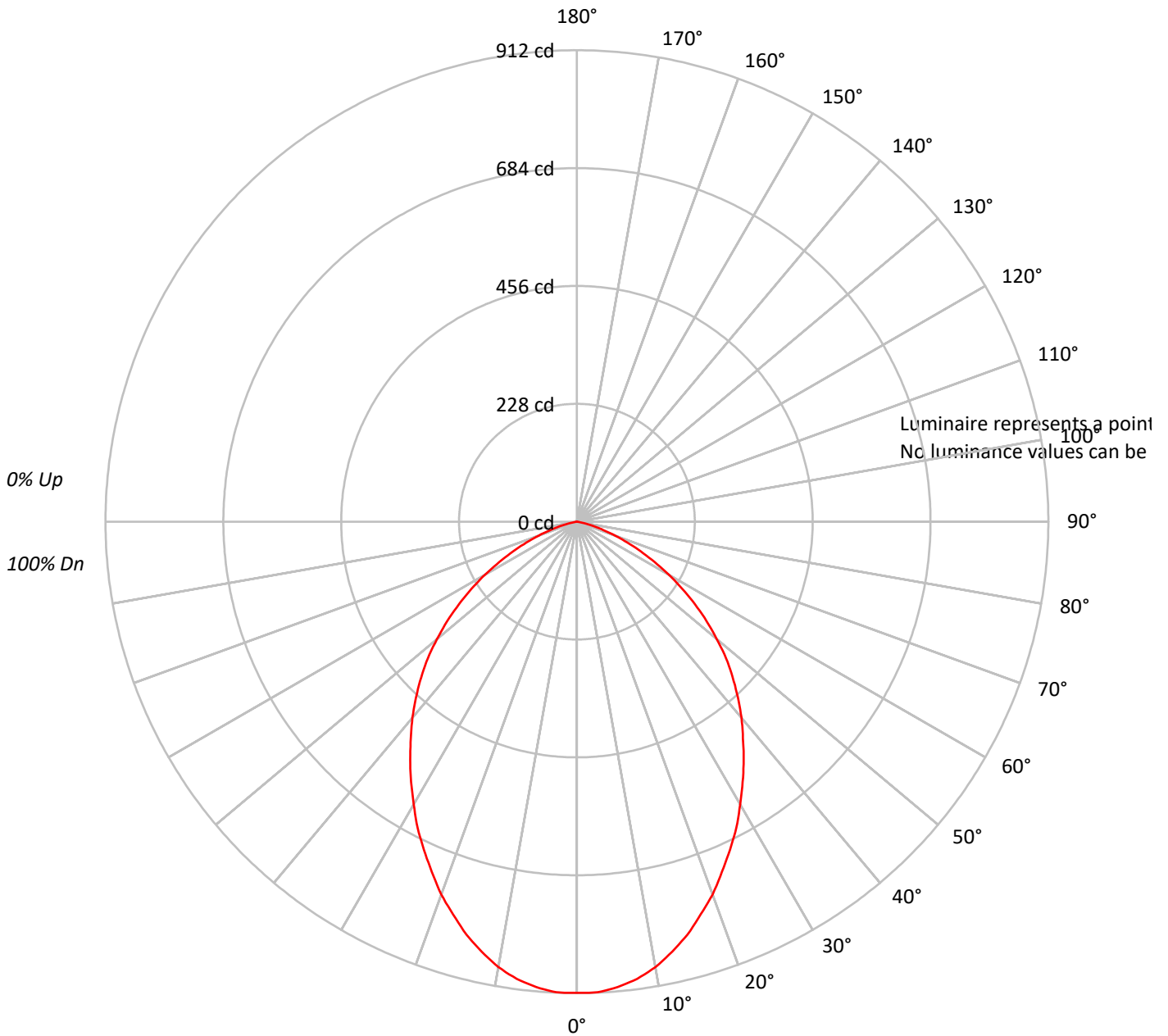
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77																			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	4.9
10°-20°	232.1	13.3
20°-30°	322.3	18.5
30°-40°	351.7	20.2
40°-50°	328.1	18.8
50°-60°	249.0	14.3
60°-70°	136.4	7.8
70°-80°	37.5	2.2
80°-90°	0.5	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°	639.7	36.7
0°-40°	991.4	56.9
0°-60°	1568.5	90.0
0°-90°	1742.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	912	
5°	904	85
15°	827	232
25°	700	322
35°	562	352
45°	426	328
55°	278	249
65°	136	136
75°	33	38
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	911.5
2.5°	911.5
5°	903.9
7.5°	892.3
10°	875.1
12.5°	852.0
15°	827.1
17.5°	796.4
20°	767.6
22.5°	733.1
25°	700.4
27.5°	667.8
30°	631.4
32.5°	596.8
35°	562.3
37.5°	527.7
40°	495.1
42.5°	460.6
45°	426.0
47.5°	391.5
50°	353.1
52.5°	316.6
55°	278.3
57.5°	241.8
60°	205.3
62.5°	168.9
65°	136.3
67.5°	105.5
70°	78.7
72.5°	53.7
75°	32.6
77.5°	15.4
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)