

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: P224003

Luminaire Tested: **LSR2B05SP158050D010 2LBDL*B**

Issue Date: 3/3/2020

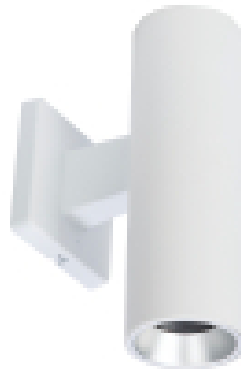
Test Information

Test Method: LM-41-14
Report Number: P224003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B05SP158050D010 2LBDL*B
Description: 500 Lumen, 2inch Portfolio LED Cylinder
SPOT OPTIC
LENSED SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 426.0 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

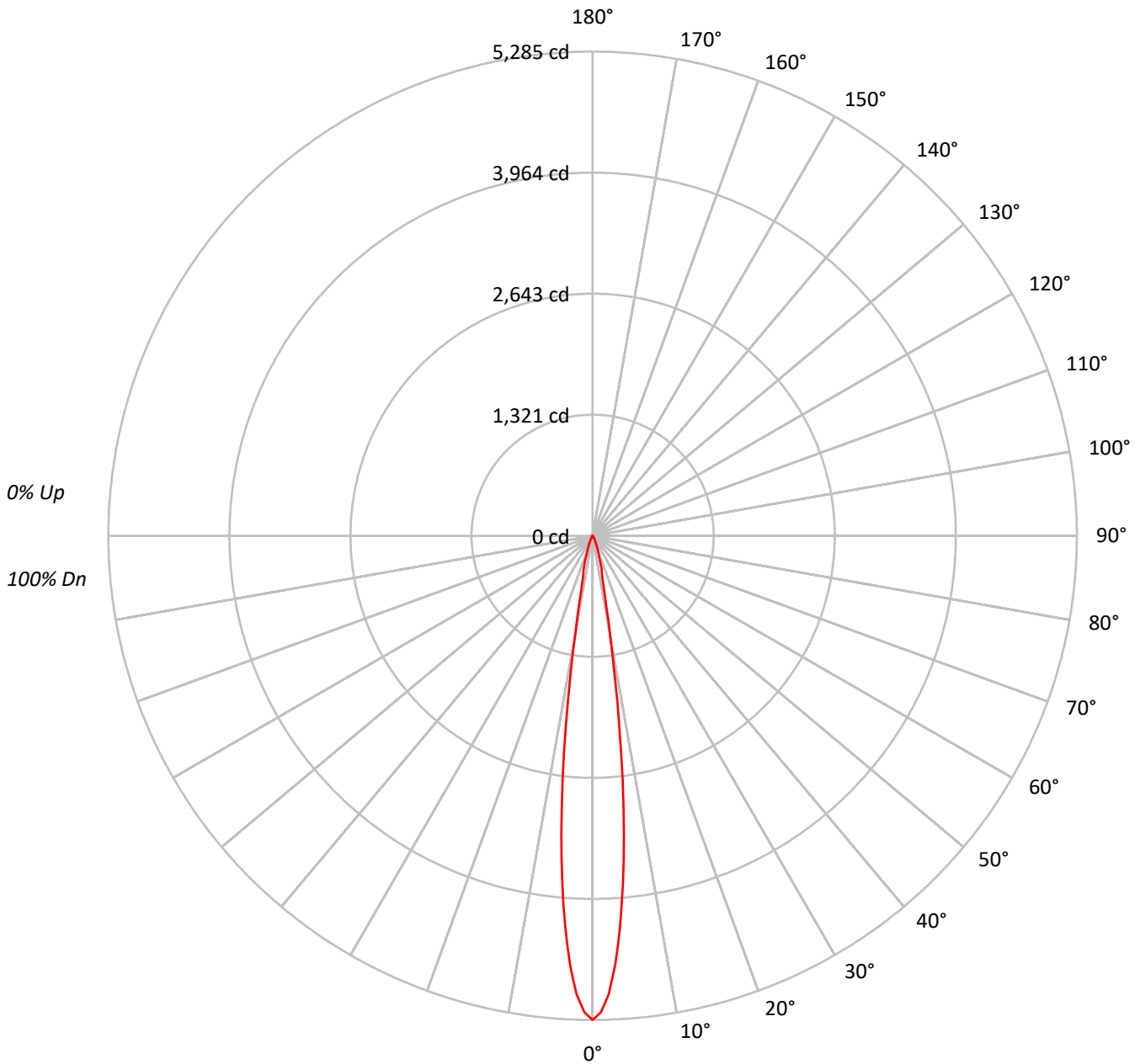
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224003

CATALOG NUMBER: LSR2B05SP158050D010 2LBDL*B

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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100											100																	
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98											98																	
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96											96																	
3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94											94																	
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93											93																	
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91											91																	
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90											90																	
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88											88																	
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87											87																	
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86											86																	
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85											85																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2047007
5°	1479792
10°	430805
15°	151181
20°	64716
25°	29105
30°	11271
35°	5580
40°	3742
45°	2410
50°	1326
55°	1013
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	63.2
10°-20°	109.6	25.7
20°-30°	33.6	7.9
30°-40°	8.3	1.9
40°-50°	3.4	0.8
50°-60°	1.5	0.3
60°-70°	0.3	0.1
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°	412.5	96.8
0°-40°	420.8	98.8
0°-60°	425.7	99.9
0°-90°	426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5285	
5°	3806	269
15°	377	110
25°	68	34
35°	12	8
45°	4	3
55°	2	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5284.7
1°	5204.0
2°	5007.0
3°	4693.0
4°	4282.7
5°	3805.8
6°	3268.1
7°	2684.6
8°	2092.9
9°	1539.7
10°	1095.3
11°	785.0
12°	590.2
13°	480.6
14°	420.6
15°	377.0
17.5°	232.5
20°	157.0
22.5°	105.2
25°	68.1
27.5°	41.5
30°	25.2
32.5°	16.3
35°	11.8
37.5°	9.6
40°	7.4
42.5°	5.9
45°	4.4
47.5°	3.0
50°	2.2
52.5°	2.2
55°	1.5
57.5°	1.5
60°	0.7
62.5°	0.7
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)