

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: PORTFOLIO

Report Number: P205339

Luminaire Tested: **LE\_6B50D010R EC6B30509050 6LBNLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205339  
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: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30509050 6LBNLI1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SPECULAR CLEAR TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4629.7 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

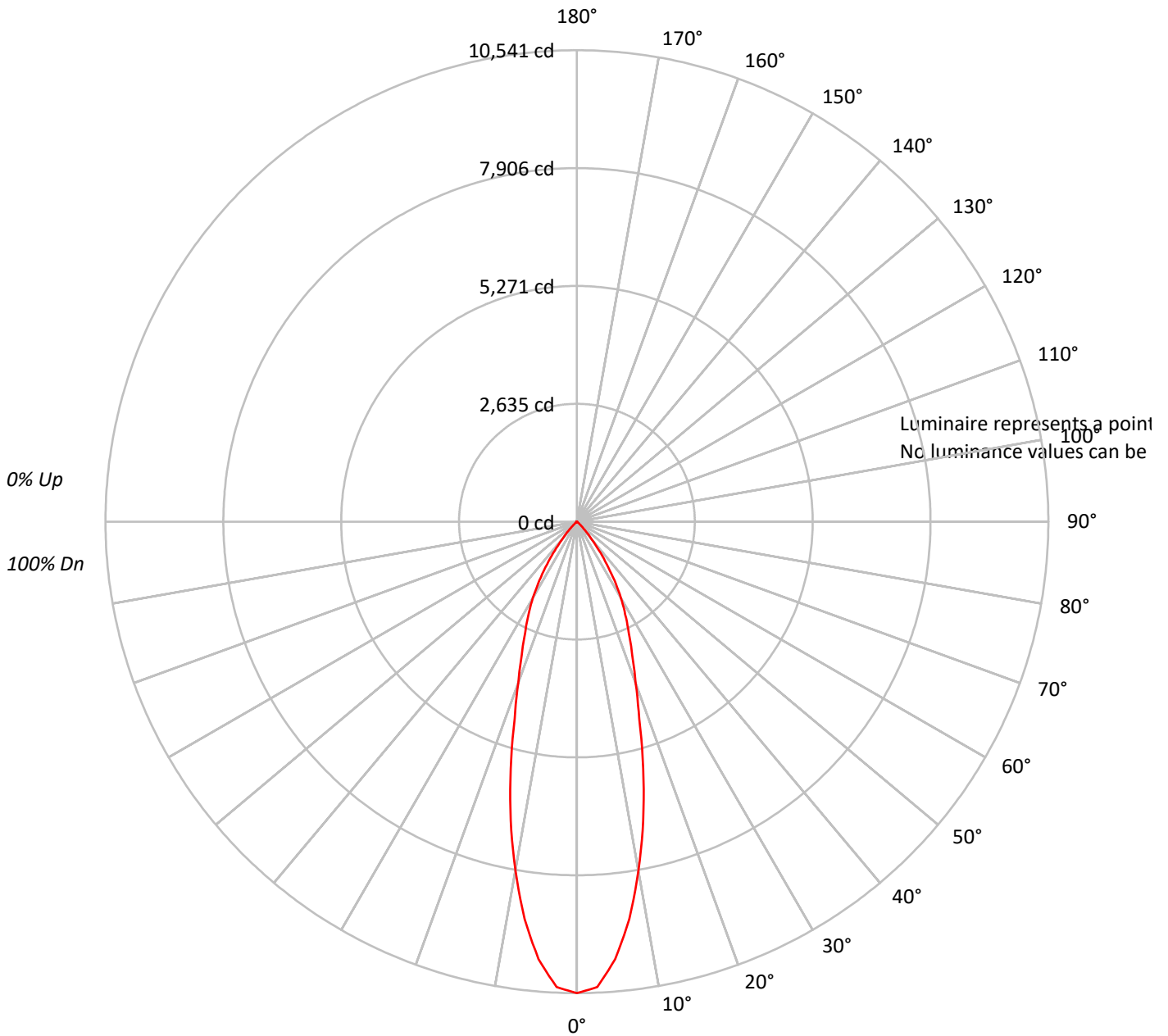
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																			
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85																			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																			
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76																			
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72																			
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65																			
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62																			
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59																			

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	876.4	18.9
10°-20°	1573.1	34.0
20°-30°	1271.9	27.5
30°-40°	732.7	15.8
40°-50°	154.9	3.3
50°-60°	13.4	0.3
60°-70°	6.6	0.1
70°-80°	0.9	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°	3721.3	80.4
0°-40°	4454.0	96.2
0°-60°	4622.3	99.8
0°-90°	4629.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4629.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10541	
5°	9820	876
15°	5714	1573
25°	2744	1272
35°	1162	733
45°	167	155
55°	13	13
65°	7	7
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10541.0
2.5°	10414.2
5°	9820.0
7.5°	8965.5
10°	7917.5
12.5°	6842.6
15°	5714.5
17.5°	4626.2
20°	3831.9
22.5°	3224.4
25°	2743.8
27.5°	2336.5
30°	1969.4
32.5°	1562.1
35°	1161.6
37.5°	807.8
40°	527.4
42.5°	320.4
45°	166.9
47.5°	66.8
50°	20.0
52.5°	20.0
55°	13.4
57.5°	13.4
60°	6.6
62.5°	6.6
65°	6.6
67.5°	6.6
70°	6.6
72.5°	0.0
75°	0.0
77.5°	0.0
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)