

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: P204172

Luminaire Tested: **LE\_6B20D010 EC6B10209050 6LBSH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204172  
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\_6B20D010 EC6B10209050 6LBSH1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
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: 2312.1 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

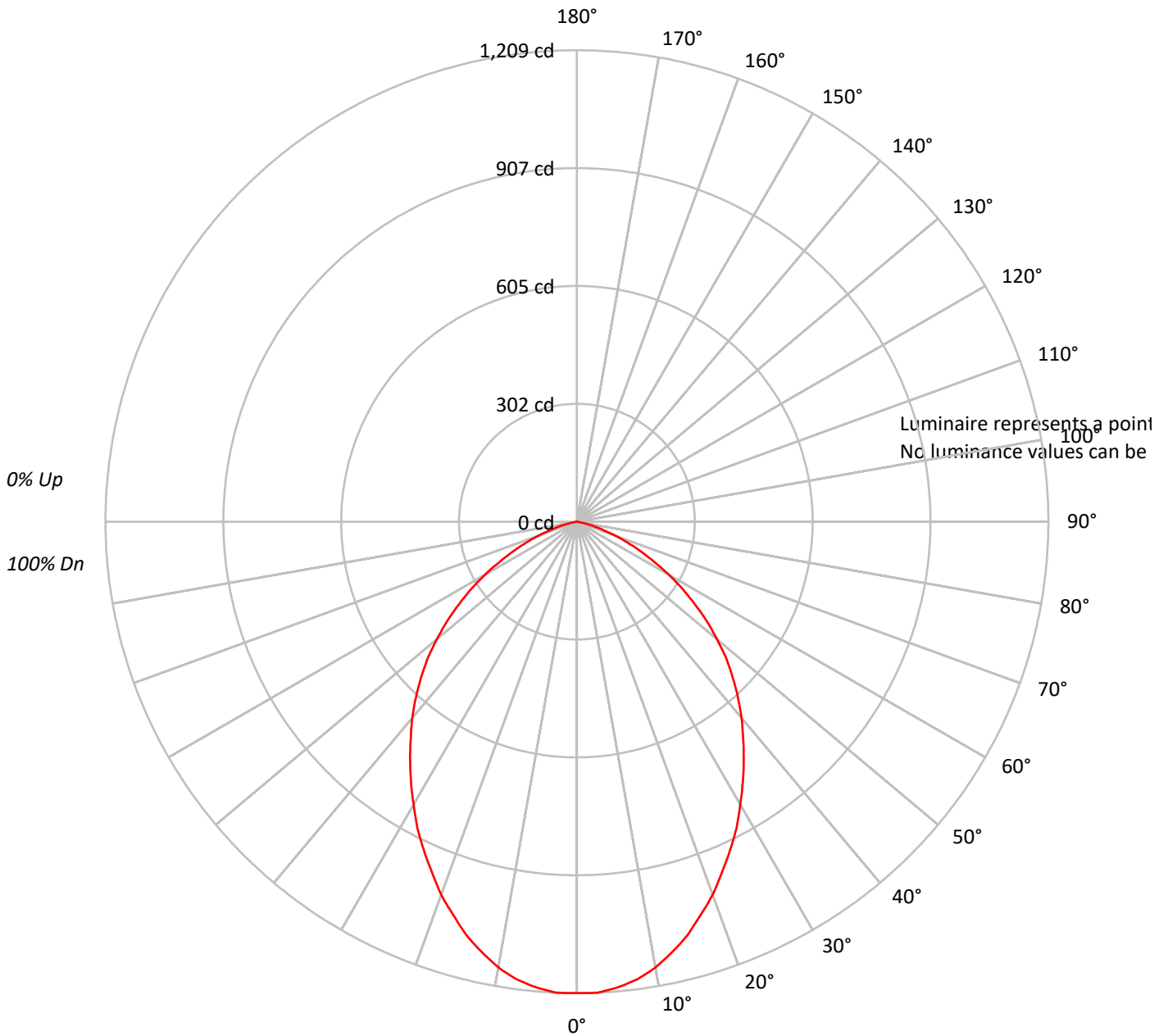
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P204172

CATALOG NUMBER: LE\_6B20D010 EC6B10209050 6LBSH1

### Luminous Intensity Polar Plot





TEST NUMBER: P204172

CATALOG NUMBER: LE\_6B20D010 EC6B10209050 6LBSH1

**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	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):**





TEST NUMBER: P204172

CATALOG NUMBER: LE\_6B20D010 EC6B10209050 6LBSH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	4.9
10°-20°	307.9	13.3
20°-30°	427.5	18.5
30°-40°	466.6	20.2
40°-50°	435.2	18.8
50°-60°	330.3	14.3
60°-70°	180.9	7.8
70°-80°	49.7	2.2
80°-90°	0.7	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°	848.7	36.7
0°-40°	1315.2	56.9
0°-60°	2080.8	90.0
0°-90°	2312.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1209	
5°	1199	113
15°	1097	308
25°	929	428
35°	746	467
45°	565	435
55°	369	330
65°	181	181
75°	43	50
85°	0	1
90°	0	



TEST NUMBER: P204172

CATALOG NUMBER: LE\_6B20D010 EC6B10209050 6LBSH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1209.2
2.5°	1209.2
5°	1199.0
7.5°	1183.8
10°	1160.9
12.5°	1130.4
15°	1097.2
17.5°	1056.5
20°	1018.2
22.5°	972.5
25°	929.2
27.5°	885.9
30°	837.5
32.5°	791.8
35°	745.9
37.5°	700.1
40°	656.8
42.5°	611.0
45°	565.1
47.5°	519.4
50°	468.4
52.5°	420.0
55°	369.1
57.5°	320.8
60°	272.4
62.5°	224.0
65°	180.8
67.5°	140.0
70°	104.4
72.5°	71.2
75°	43.2
77.5°	20.4
80°	5.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)