

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: P204071

Luminaire Tested: **LE\_6B20D010 EC6B10209730 6LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204071  
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 EC6B10209730 6LBNMW1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE 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: 1372.7 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

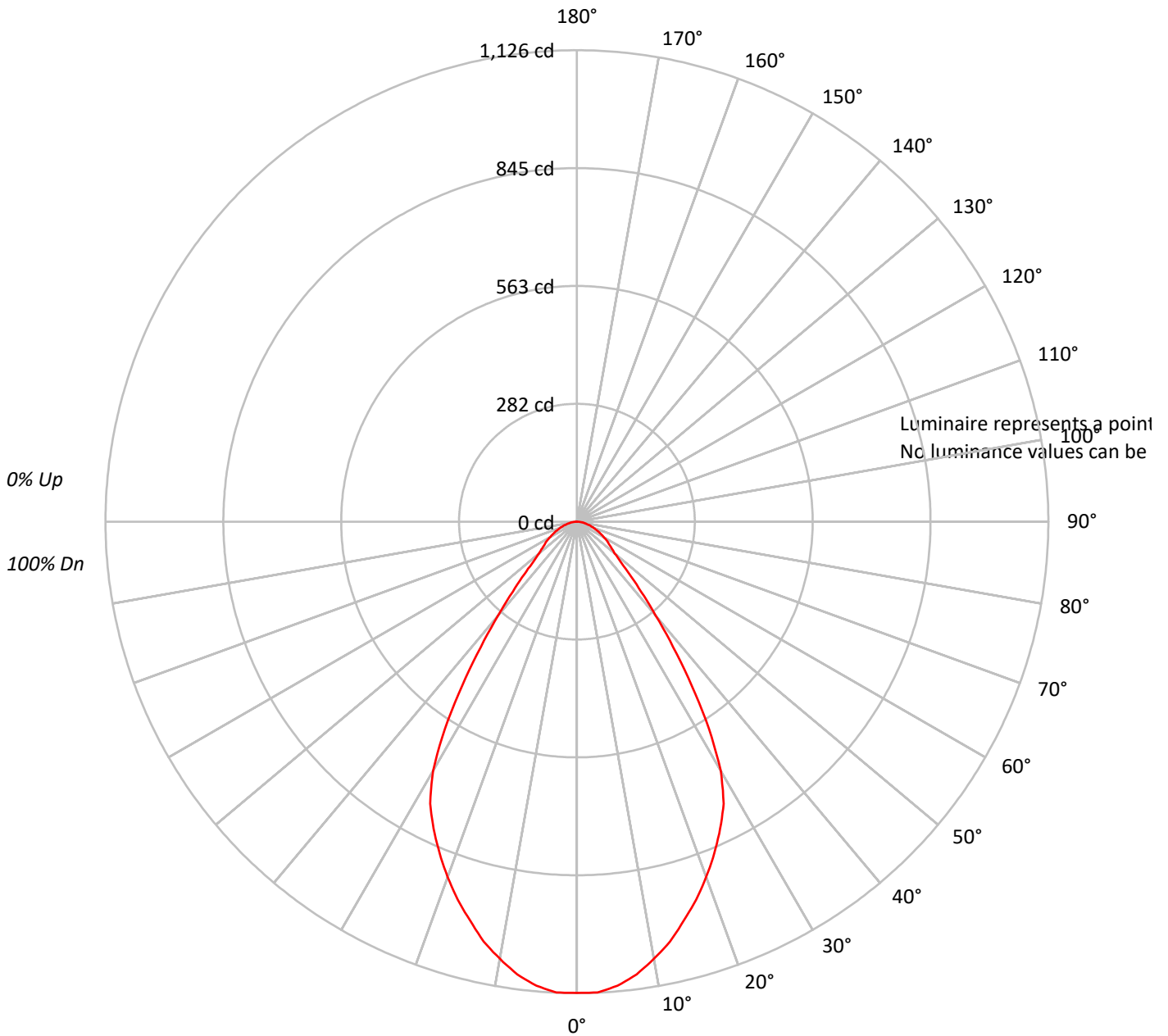
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81																			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66																			
5	87	77	70	64	85	76	69	64	74	68	64	72	67	63	70	66	62	61																			
6	81	71	64	59	80	70	63	59	68	63	58	67	62	58	66	61	57	56																			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51																			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47																			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44																			
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	7.6
10°-20°	277.1	20.2
20°-30°	369.9	26.9
30°-40°	298.5	21.7
40°-50°	143.0	10.4
50°-60°	84.8	6.2
60°-70°	56.4	4.1
70°-80°	30.2	2.2
80°-90°	8.3	0.6
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°	751.5	54.7
0°-40°	1050.0	76.5
0°-60°	1277.8	93.1
0°-90°	1372.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1126	
5°	1113	105
15°	986	277
25°	809	370
35°	478	298
45°	177	143
55°	94	85
65°	57	56
75°	28	30
85°	6	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1125.6
2.5°	1125.6
5°	1112.6
7.5°	1090.8
10°	1060.2
12.5°	1027.5
15°	986.1
17.5°	946.8
20°	903.1
22.5°	857.4
25°	809.4
27.5°	759.1
30°	687.2
32.5°	586.9
35°	477.8
37.5°	377.4
40°	292.4
42.5°	226.9
45°	176.8
47.5°	139.6
50°	117.8
52.5°	104.8
55°	93.8
57.5°	85.1
60°	74.1
62.5°	65.5
65°	56.8
67.5°	48.0
70°	41.5
72.5°	34.9
75°	28.4
77.5°	21.9
80°	17.5
82.5°	13.1
85°	6.5
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)