

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: P203957

Luminaire Tested: **LE\_6B20D010 EC6B10208030 6LBNB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203957  
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 EC6B10208030 6LBNB1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SPECULAR BLACK 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: 1112.1 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.83  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

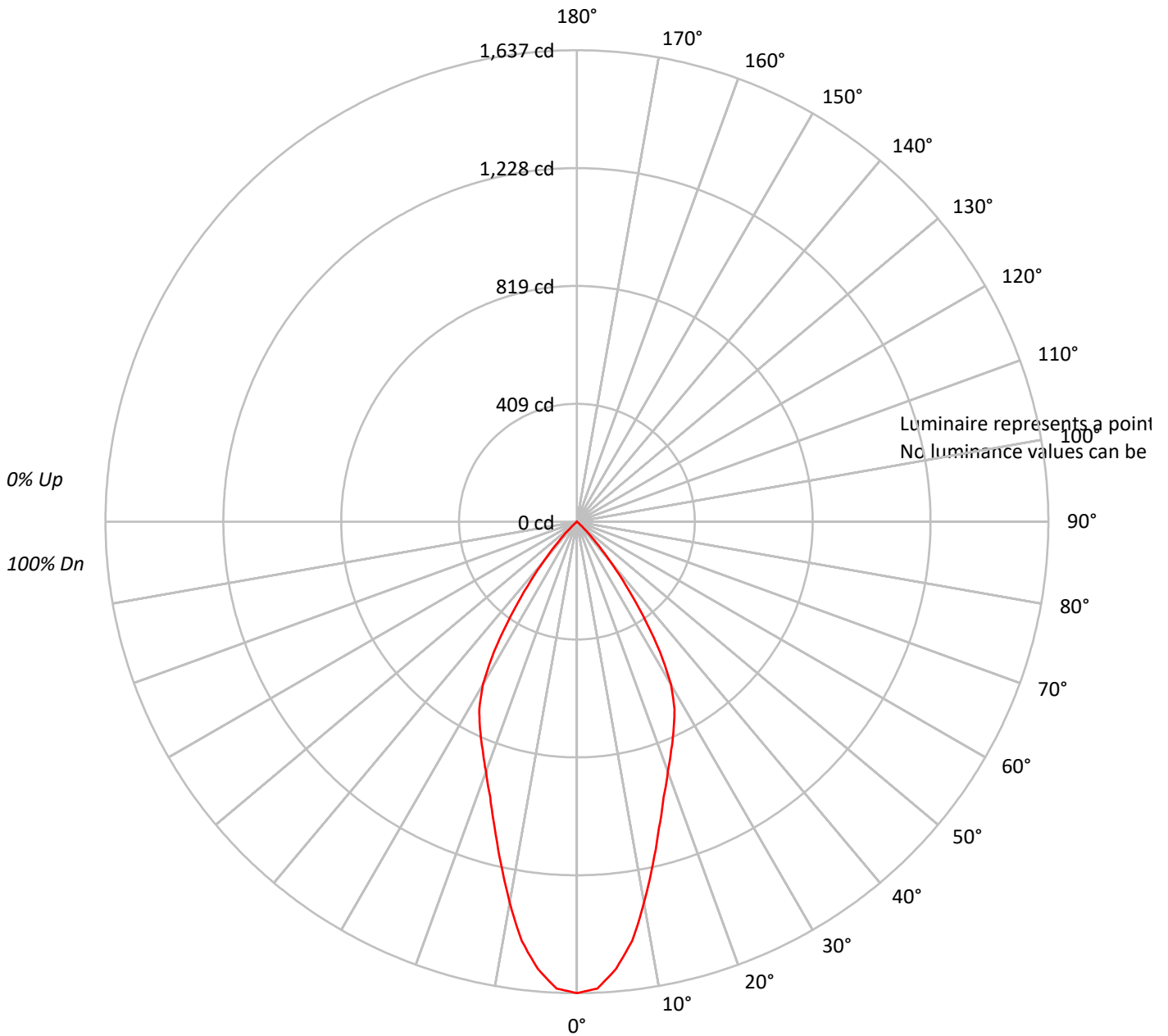
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									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	100	100	100	100	100	100	100																			
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94	94	94	94																			
	2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88	88	88	88	88	88	88																			
	3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82	82	82	82	82	82	82	82	82																			
	4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77	77	77	77	77	77	77	77	77																			
	5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72	72	72	72	72	72	72	72	72																			
	6	89	80	75	71	88	80	74	70	78	73	70	77	73	69	75	72	69	67	67	67	67	67	67	67	67	67																			
	7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63	63	63	63	63	63	63	63	63																			
	8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60	60	60	60	60	60	60	60	60																			
	9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56	56	56	56	56	56	56	56	56																			
	10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53	53	53	53	53	53	53	53	53																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.0	12.8
10°-20°	309.5	27.8
20°-30°	363.7	32.7
30°-40°	250.4	22.5
40°-50°	46.4	4.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
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°	815.2	73.3
0°-40°	1065.7	95.8
0°-60°	1112.1	100.0
0°-90°	1112.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1637	
5°	1558	142
15°	1101	310
25°	795	364
35°	402	250
45°	47	46
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1637.0
2.5°	1622.5
5°	1558.4
7.5°	1468.1
10°	1342.9
12.5°	1217.6
15°	1101.1
17.5°	1002.0
20°	923.4
22.5°	856.4
25°	795.2
27.5°	734.0
30°	652.5
32.5°	536.0
35°	402.0
37.5°	279.6
40°	177.8
42.5°	99.0
45°	46.6
47.5°	14.6
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)