

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: P203665

Luminaire Tested: **LE\_6B30D010 EC6B30509024 6LBNH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203665  
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\_6B30D010 EC6B30509024 6LBNH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W  
DL3-29.67 W DLE-29.73 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1678.7 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

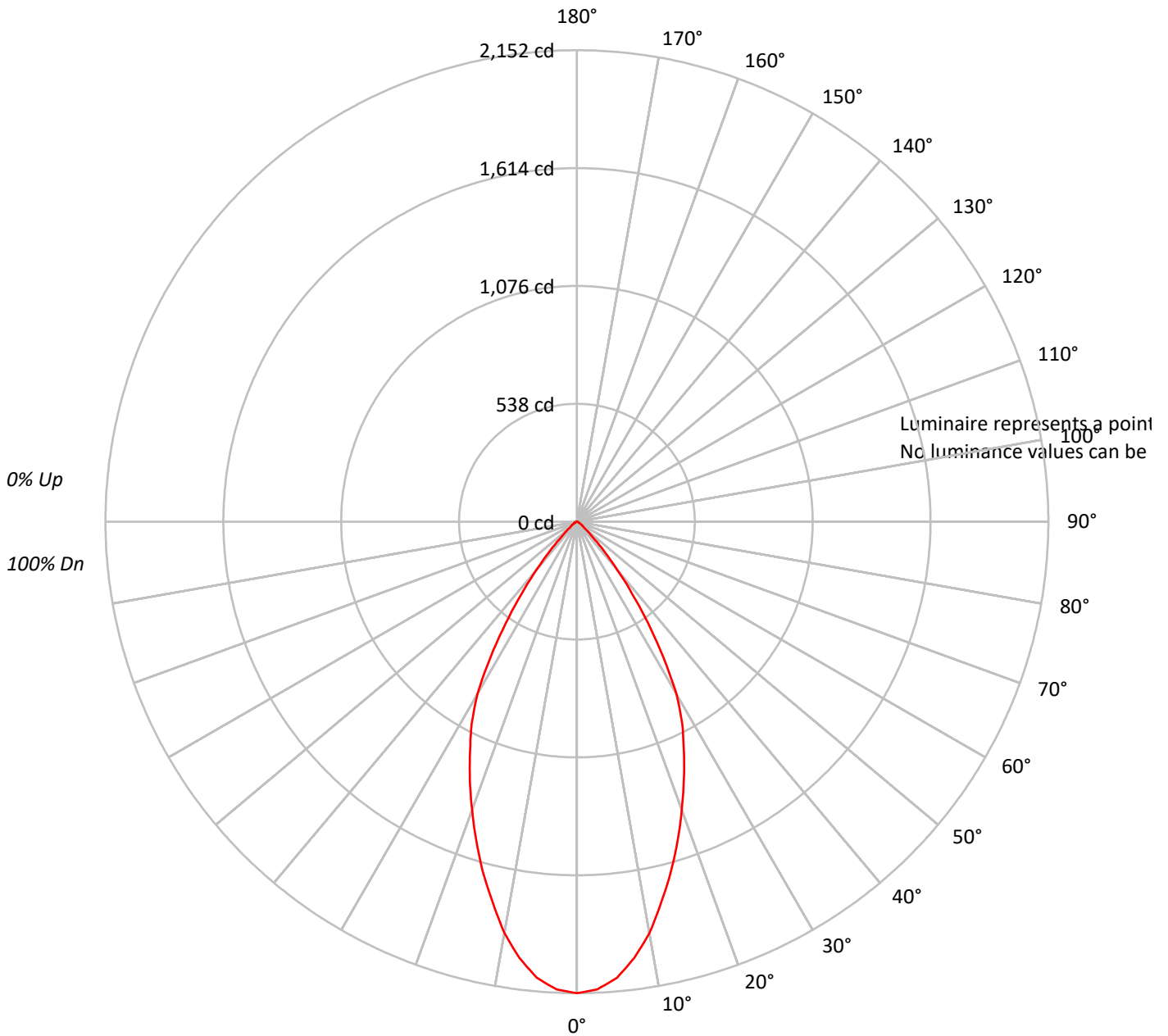
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93																				
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81																		
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75																	
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70																	
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65																
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61																
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53																
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50																

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.5	11.5
10°-20°	461.5	27.5
20°-30°	528.7	31.5
30°-40°	355.3	21.2
40°-50°	101.5	6.0
50°-60°	24.8	1.5
60°-70°	9.4	0.6
70°-80°	3.6	0.2
80°-90°	0.4	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°	1183.8	70.5
0°-40°	1539.1	91.7
0°-60°	1665.4	99.2
0°-90°	1678.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2152	
5°	2091	194
15°	1656	462
25°	1154	529
35°	566	355
45°	116	102
55°	28	25
65°	9	9
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2152.1
2.5°	2136.9
5°	2090.9
7.5°	2008.2
10°	1907.2
12.5°	1778.6
15°	1656.2
17.5°	1527.6
20°	1399.0
22.5°	1276.6
25°	1154.1
27.5°	1040.9
30°	909.2
32.5°	734.8
35°	566.4
37.5°	413.2
40°	284.8
42.5°	186.8
45°	116.4
47.5°	70.4
50°	42.9
52.5°	33.6
55°	27.5
57.5°	21.4
60°	15.2
62.5°	12.2
65°	9.1
67.5°	6.1
70°	6.1
72.5°	3.0
75°	3.0
77.5°	3.0
80°	3.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)