

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: HALO

Report Number: P189772

Luminaire Tested: **ML5612D2W- 592W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P189772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27311)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML5612D2W- 592W  
Description: 5" D2W DIMMED TO 3000K, WITH WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

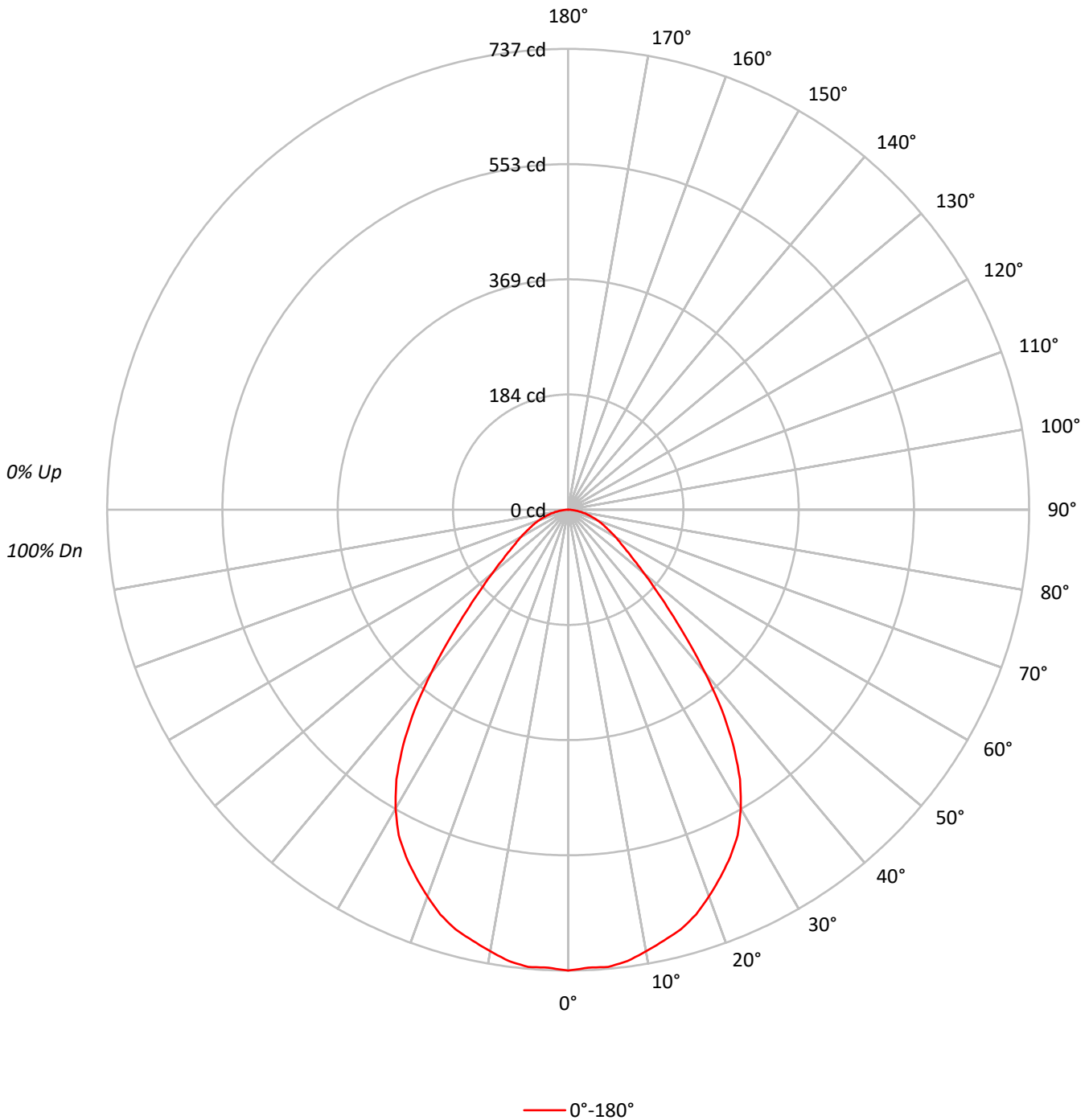
Lumens per Lamp: N/A  
Luminaire Lumens: 1227.9 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.12  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.8  
Input Voltage (V): NR  
Input Current (Ain): 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	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	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74		81	76	72		78	74	71	69
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72	67	64	62
5	83	73	65	60	82	72	65	59	70	63	59		68	62	58		66	61	58	56
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61	56	52	50
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57	51	47	46
8	69	57	49	44	67	56	49	44	55	49	44		54	48	44		53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37		47	41	37		46	41	37	35

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

	0°
0°	58179
5°	58164
10°	57474
15°	56799
20°	55277
25°	53393
30°	50317
35°	44330
40°	35037
45°	25677
50°	19404
55°	15690
60°	13736
65°	12328
70°	11540
75°	10370
80°	9092
85°	7246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	5.7
10°-20°	195.3	15.9
20°-30°	281.1	22.9
30°-40°	283.2	23.1
40°-50°	182.0	14.8
50°-60°	104.5	8.5
60°-70°	66.4	5.4
70°-80°	36.4	3.0
80°-90°	9.5	0.8
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°	545.9	44.5
0°-40°	829.1	67.5
0°-60°	1115.6	90.9
0°-90°	1227.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1227.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	737	
5°	734	69
15°	695	195
25°	613	281
35°	460	283
45°	230	182
55°	114	104
65°	66	66
75°	34	36
85°	8	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	737
2.5°	733
5°	734
7.5°	728
10°	717
12.5°	706
15°	695
17.5°	679
20°	658
22.5°	636
25°	613
27.5°	587
30°	552
32.5°	511
35°	460
37.5°	403
40°	340
42.5°	281
45°	230
47.5°	190
50°	158
52.5°	133
55°	114
57.5°	99
60°	87
62.5°	76
65°	66
67.5°	58
70°	50
72.5°	42
75°	34
77.5°	27
80°	20
82.5°	14
85°	8
87.5°	3
90°	0

(END OF REPORT)