

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: P189776

Luminaire Tested: **ML5609D2W- 692SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P189776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27320)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML5609D2W- 692SC
Description: 6" D2W DIMMED TO 3000K, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1001.6 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.76
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

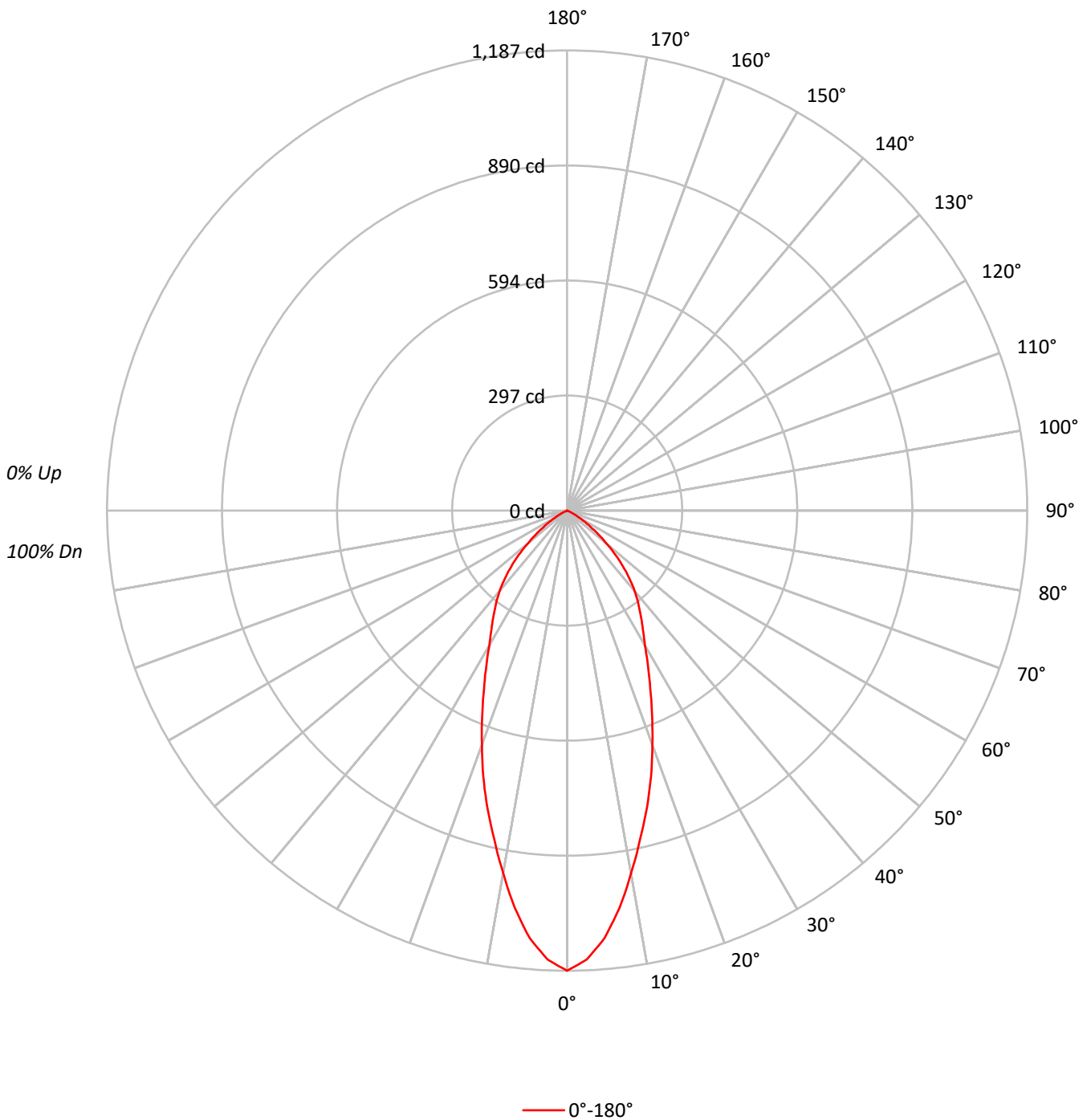
Input Watts (W): 12.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	88	86	84
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	67	62	82	72	66	61	71	65	61		69	64	61		68	64	60	59
7	79	68	61	57	77	67	61	57	66	60	56		65	60	56		64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52		61	56	52		60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48		57	52	48		56	52	48	47
10	67	56	50	46	66	56	50	45	55	49	45		54	49	45		53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65072
5°	60918
10°	52883
15°	45063
20°	37512
25°	30728
30°	25384
35°	22152
40°	19393
45°	15816
50°	11428
55°	7168
60°	3728
65°	1297
70°	160
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	10.0
10°-20°	220.9	22.1
20°-30°	234.3	23.4
30°-40°	207.5	20.7
40°-50°	156.1	15.6
50°-60°	69.6	6.9
60°-70°	12.3	1.2
70°-80°	0.4	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°	555.8	55.5
0°-40°	763.3	76.2
0°-60°	988.9	98.7
0°-90°	1001.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1187	
5°	1107	101
15°	794	221
25°	508	234
35°	331	207
45°	204	156
55°	75	70
65°	10	12
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1187
2.5°	1159
5°	1107
7.5°	1034
10°	950
12.5°	869
15°	794
17.5°	719
20°	643
22.5°	572
25°	508
27.5°	451
30°	401
32.5°	363
35°	331
37.5°	301
40°	271
42.5°	238
45°	204
47.5°	169
50°	134
52.5°	103
55°	75
57.5°	52
60°	34
62.5°	20
65°	10
67.5°	3
70°	1
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)