

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 COMMERCIAL

Report Number: P581840

Luminaire Tested: **HC620D010-HM60525827-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525827-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.7 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

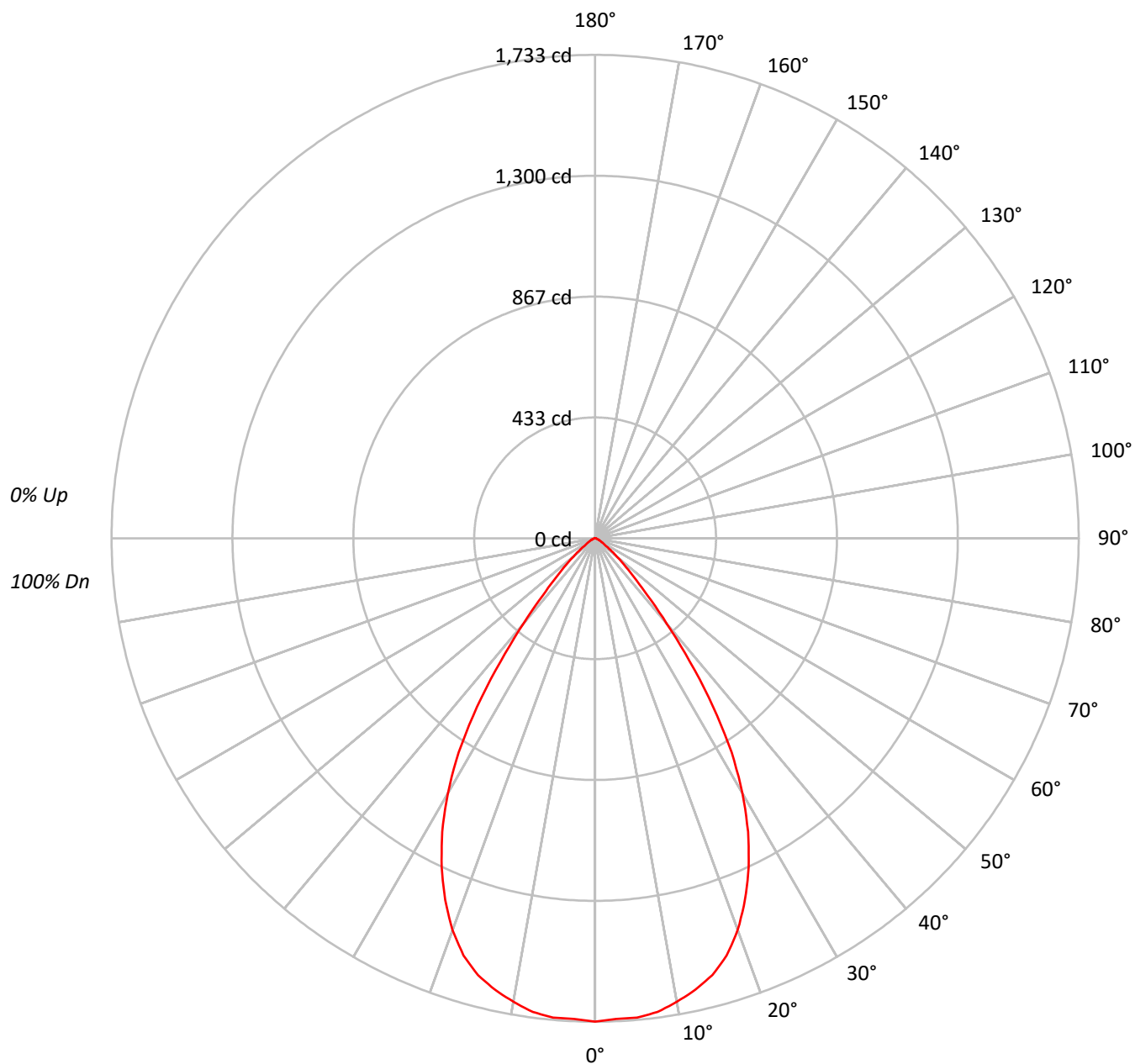
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	79	76		82	78	75		80
5	90	81	75	71	89	80	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	67	64		71
7	81	71	65	60	79	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	62	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	52	48	57	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	94992
5°	94915
10°	93925
15°	92038
20°	87181
25°	78730
30°	66877
35°	49376
40°	28553
45°	15164
50°	8563
55°	4483
60°	2927
65°	2088
70°	1507
75°	1123
80°	852
85°	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	8.6
10°-20°	453.6	23.9
20°-30°	592.0	31.2
30°-40°	452.4	23.9
40°-50°	163.8	8.6
50°-60°	47.5	2.5
60°-70°	17.0	0.9
70°-80°	5.8	0.3
80°-90°	1.1	0.1
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°	1209.0	63.7
0°-40°	1661.4	87.6
0°-60°	1872.7	98.7
0°-90°	1896.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1733	
5°	1725	163
15°	1622	454
25°	1302	592
35°	738	452
45°	196	164
55°	47	48
65°	16	17
75°	5	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1732.8
2.5°	1724.8
5°	1724.8
7.5°	1712.8
10°	1687.3
12.5°	1657.8
15°	1621.7
17.5°	1568.1
20°	1494.4
22.5°	1403.4
25°	1301.6
27.5°	1186.5
30°	1056.5
32.5°	910.6
35°	737.8
37.5°	557.1
40°	399.0
42.5°	275.9
45°	195.6
47.5°	140.6
50°	100.4
52.5°	70.9
55°	46.9
57.5°	33.4
60°	26.7
62.5°	21.4
65°	16.1
67.5°	13.4
70°	9.4
72.5°	6.7
75°	5.3
77.5°	4.0
80°	2.7
82.5°	1.4
85°	1.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)