

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: P593151

Luminaire Tested: **HC620D010-HM60525950-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525950-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1816.6 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

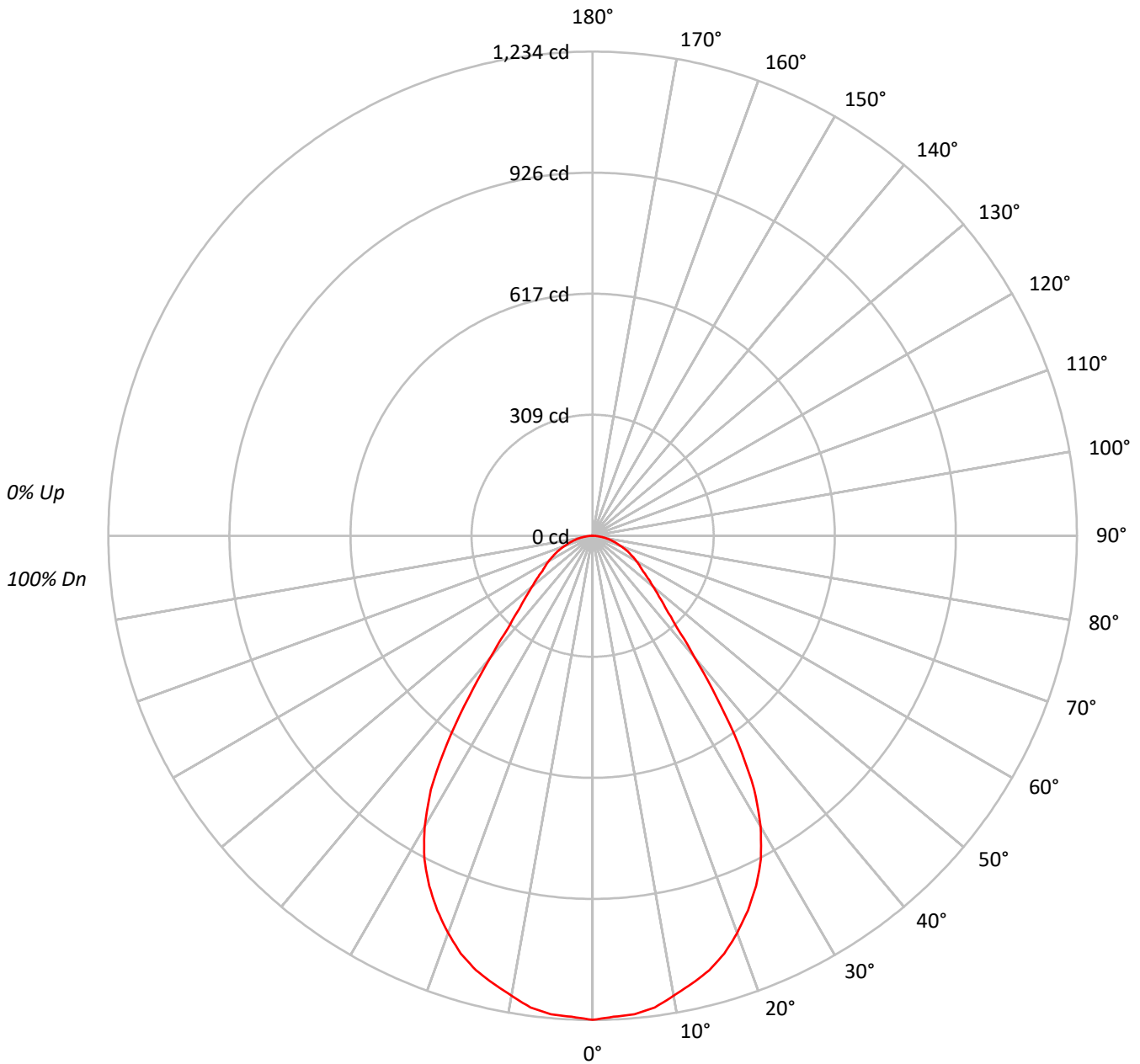
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67626
5°	67373
10°	66248
15°	65080
20°	62830
25°	59580
30°	54192
35°	43306
40°	28890
45°	20599
50°	17159
55°	14958
60°	14133
65°	13296
70°	12230
75°	11416
80°	10386
85°	9120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	6.4
10°-20°	322.0	17.7
20°-30°	449.9	24.8
30°-40°	396.4	21.8
40°-50°	214.1	11.8
50°-60°	143.2	7.9
60°-70°	101.5	5.6
70°-80°	57.1	3.1
80°-90°	16.7	0.9
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°	887.7	48.9
0°-40°	1284.1	70.7
0°-60°	1641.4	90.4
0°-90°	1816.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1234	
5°	1224	116
15°	1147	322
25°	985	450
35°	647	396
45°	266	214
55°	156	143
65°	102	101
75°	54	57
85°	14	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1233.6
2.5°	1226.9
5°	1224.3
7.5°	1212.5
10°	1190.1
12.5°	1169.1
15°	1146.7
17.5°	1116.5
20°	1077.0
22.5°	1033.6
25°	985.0
27.5°	928.5
30°	856.1
32.5°	766.7
35°	647.1
37.5°	516.9
40°	403.7
42.5°	318.3
45°	265.7
47.5°	230.1
50°	201.2
52.5°	177.5
55°	156.5
57.5°	142.1
60°	128.9
62.5°	115.7
65°	102.5
67.5°	89.4
70°	76.3
72.5°	64.5
75°	53.9
77.5°	43.4
80°	32.9
82.5°	23.7
85°	14.5
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)