

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: P581869

Luminaire Tested: **HC620D010-HM60525830-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525830-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2101.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

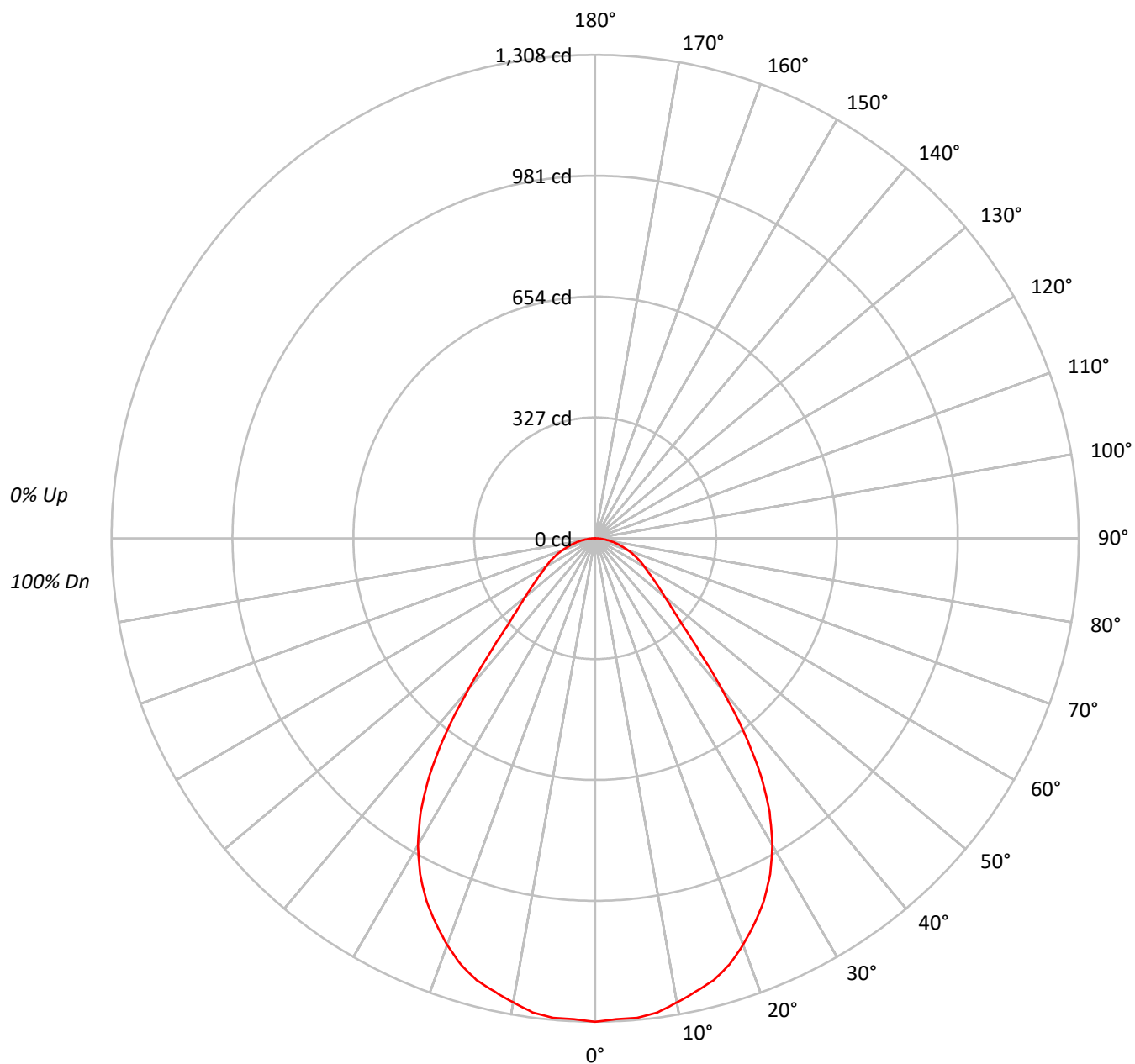
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	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	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71727
5°	71682
10°	70985
15°	70250
20°	68268
25°	65381
30°	60680
35°	52207
40°	38107
45°	26111
50°	20989
55°	18303
60°	16885
65°	16059
70°	15003
75°	14022
80°	12723
85°	10819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	5.9
10°-20°	347.6	16.5
20°-30°	494.4	23.5
30°-40°	476.0	22.6
40°-50°	273.9	13.0
50°-60°	173.5	8.3
60°-70°	122.8	5.8
70°-80°	70.1	3.3
80°-90°	20.0	1.0
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°	965.5	45.9
0°-40°	1441.5	68.6
0°-60°	1888.9	89.9
0°-90°	2101.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1308	
5°	1303	123
15°	1238	348
25°	1081	494
35°	780	476
45°	337	274
55°	192	174
65°	124	123
75°	66	70
85°	17	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1308.4
2.5°	1302.6
5°	1302.6
7.5°	1294.0
10°	1275.2
12.5°	1256.5
15°	1237.8
17.5°	1209.0
20°	1170.2
22.5°	1127.0
25°	1080.9
27.5°	1024.8
30°	958.6
32.5°	878.0
35°	780.1
37.5°	660.7
40°	532.5
42.5°	420.2
45°	336.8
47.5°	283.6
50°	246.1
52.5°	215.9
55°	191.5
57.5°	169.8
60°	154.0
62.5°	139.6
65°	123.8
67.5°	109.3
70°	93.6
72.5°	79.2
75°	66.2
77.5°	53.3
80°	40.3
82.5°	28.8
85°	17.2
87.5°	7.3
90°	0.0



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— 0°-180°







(END OF REPORT)