

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: P581941

Luminaire Tested: **HC620D010-HM60525930-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581941
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-HM60525930-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1801.7 lumens
Efficiency: N/A
Efficacy: 90.1 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

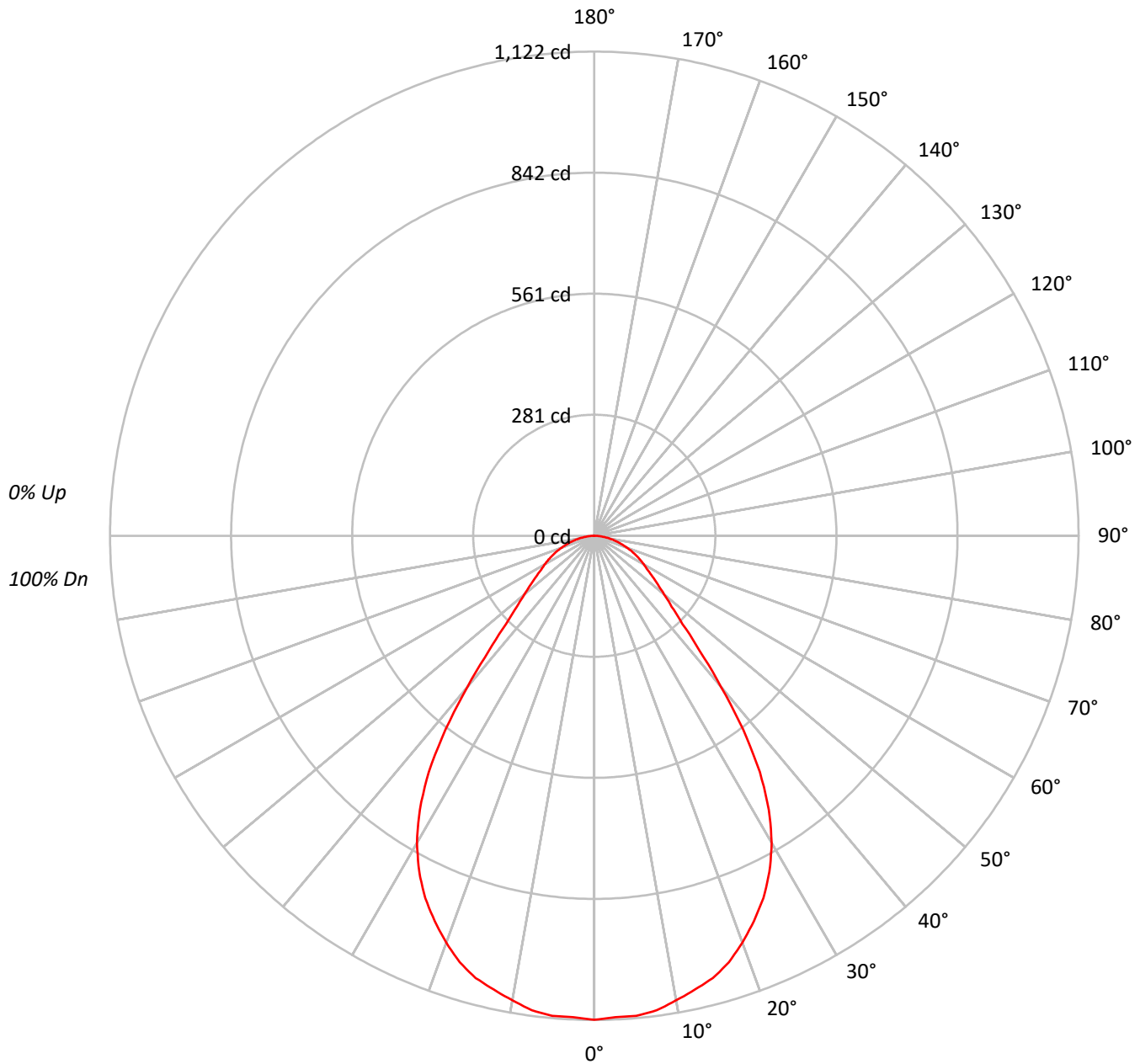
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		94
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85
3	96	87	81	76	94	86	80	75	83	78	74		81	76	72		78
4	89	80	72	67	87	78	72	66	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	54	64	58	53		63	57	53		61
7	73	62	54	49	72	61	54	49	60	53	48		58	52	48		57
8	69	57	50	45	68	57	50	45	55	49	44		54	48	44		53
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61486
5°	61446
10°	60848
15°	60222
20°	58525
25°	56048
30°	52021
35°	44751
40°	32668
45°	22382
50°	17995
55°	15684
60°	14473
65°	13776
70°	12855
75°	12031
80°	10923
85°	9309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	5.9
10°-20°	298.0	16.5
20°-30°	423.8	23.5
30°-40°	408.0	22.6
40°-50°	234.8	13.0
50°-60°	148.7	8.3
60°-70°	105.3	5.8
70°-80°	60.1	3.3
80°-90°	17.1	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°	827.7	45.9
0°-40°	1235.7	68.6
0°-60°	1619.3	89.9
0°-90°	1801.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1122	
5°	1117	106
15°	1061	298
25°	927	424
35°	669	408
45°	289	235
55°	164	149
65°	106	105
75°	57	60
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1121.6
2.5°	1116.6
5°	1116.6
7.5°	1109.2
10°	1093.1
12.5°	1077.1
15°	1061.1
17.5°	1036.5
20°	1003.2
22.5°	966.1
25°	926.6
27.5°	878.5
30°	821.8
32.5°	752.7
35°	668.7
37.5°	566.3
40°	456.5
42.5°	360.3
45°	288.7
47.5°	243.0
50°	211.0
52.5°	185.0
55°	164.1
57.5°	145.6
60°	132.0
62.5°	119.6
65°	106.2
67.5°	93.8
70°	80.2
72.5°	67.9
75°	56.8
77.5°	45.7
80°	34.6
82.5°	24.7
85°	14.8
87.5°	6.1
90°	0.0



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— 0°-180°







(END OF REPORT)