

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: P581942

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525930-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1941.2 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

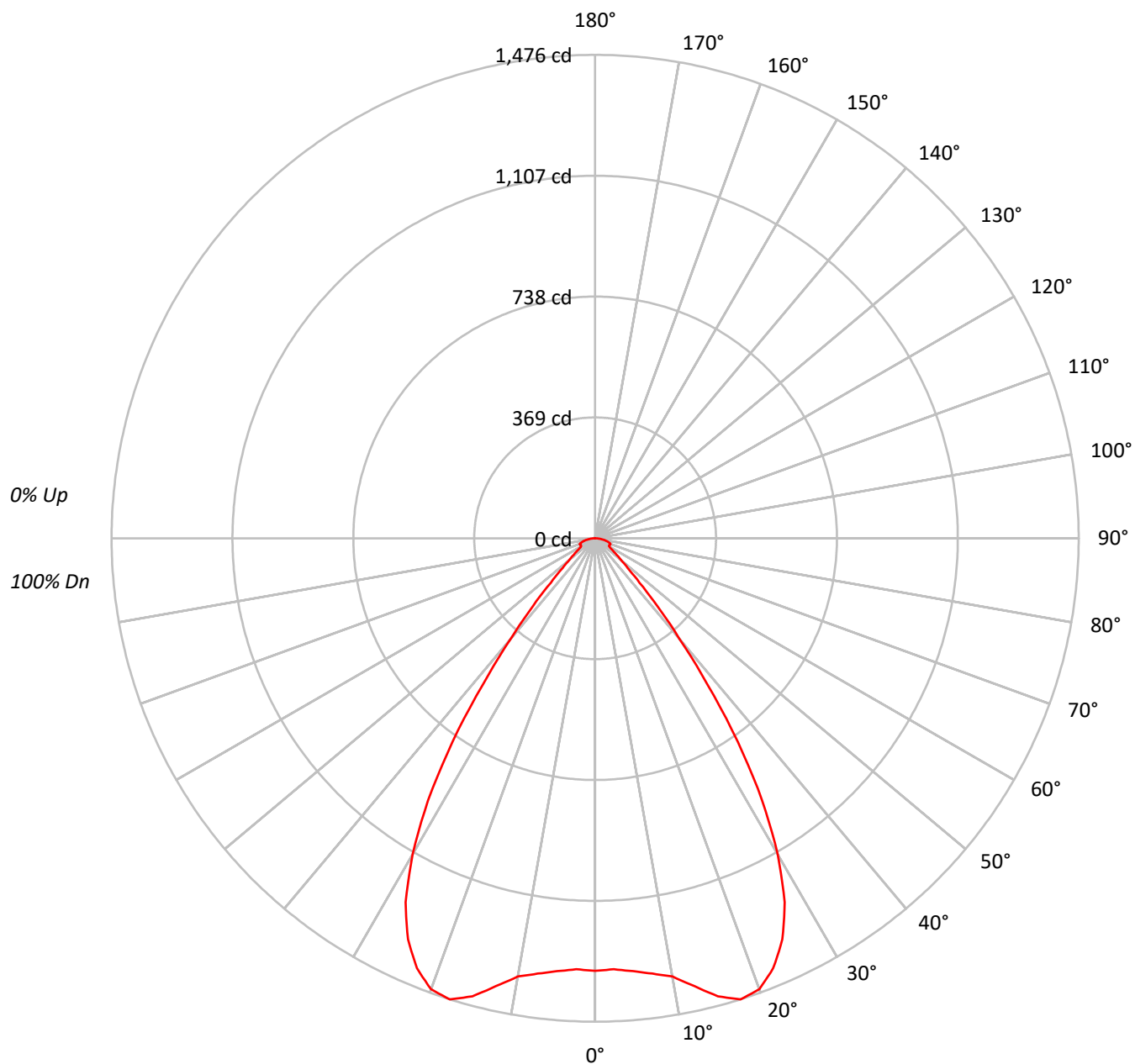
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69		
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63		
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54		
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46		
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72396
5°	73019
10°	75644
15°	82163
20°	85472
25°	81755
30°	70549
35°	50801
40°	28618
45°	14839
50°	8844
55°	6365
60°	5416
65°	6252
70°	7918
75°	8366
80°	8177
85°	7737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	6.6
10°-20°	408.3	21.0
20°-30°	610.4	31.4
30°-40°	466.6	24.0
40°-50°	163.0	8.4
50°-60°	62.1	3.2
60°-70°	48.7	2.5
70°-80°	41.2	2.1
80°-90°	13.3	0.7
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°	1146.4	59.1
0°-40°	1612.9	83.1
0°-60°	1838.0	94.7
0°-90°	1941.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1321	
5°	1327	128
15°	1448	408
25°	1352	610
35°	759	467
45°	191	163
55°	67	62
65°	48	49
75°	40	41
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1320.6
2.5°	1317.0
5°	1326.9
7.5°	1340.5
10°	1358.9
12.5°	1400.8
15°	1447.7
17.5°	1476.2
20°	1465.1
22.5°	1420.7
25°	1351.6
27.5°	1252.8
30°	1114.5
32.5°	949.1
35°	759.1
37.5°	562.9
40°	399.9
42.5°	280.2
45°	191.4
47.5°	134.5
50°	103.7
52.5°	81.5
55°	66.6
57.5°	54.3
60°	49.4
62.5°	48.2
65°	48.2
67.5°	50.6
70°	49.4
72.5°	45.7
75°	39.5
77.5°	33.3
80°	25.9
82.5°	18.5
85°	12.3
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)