

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: P593154

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593154  
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-HM60525950-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1920.4 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

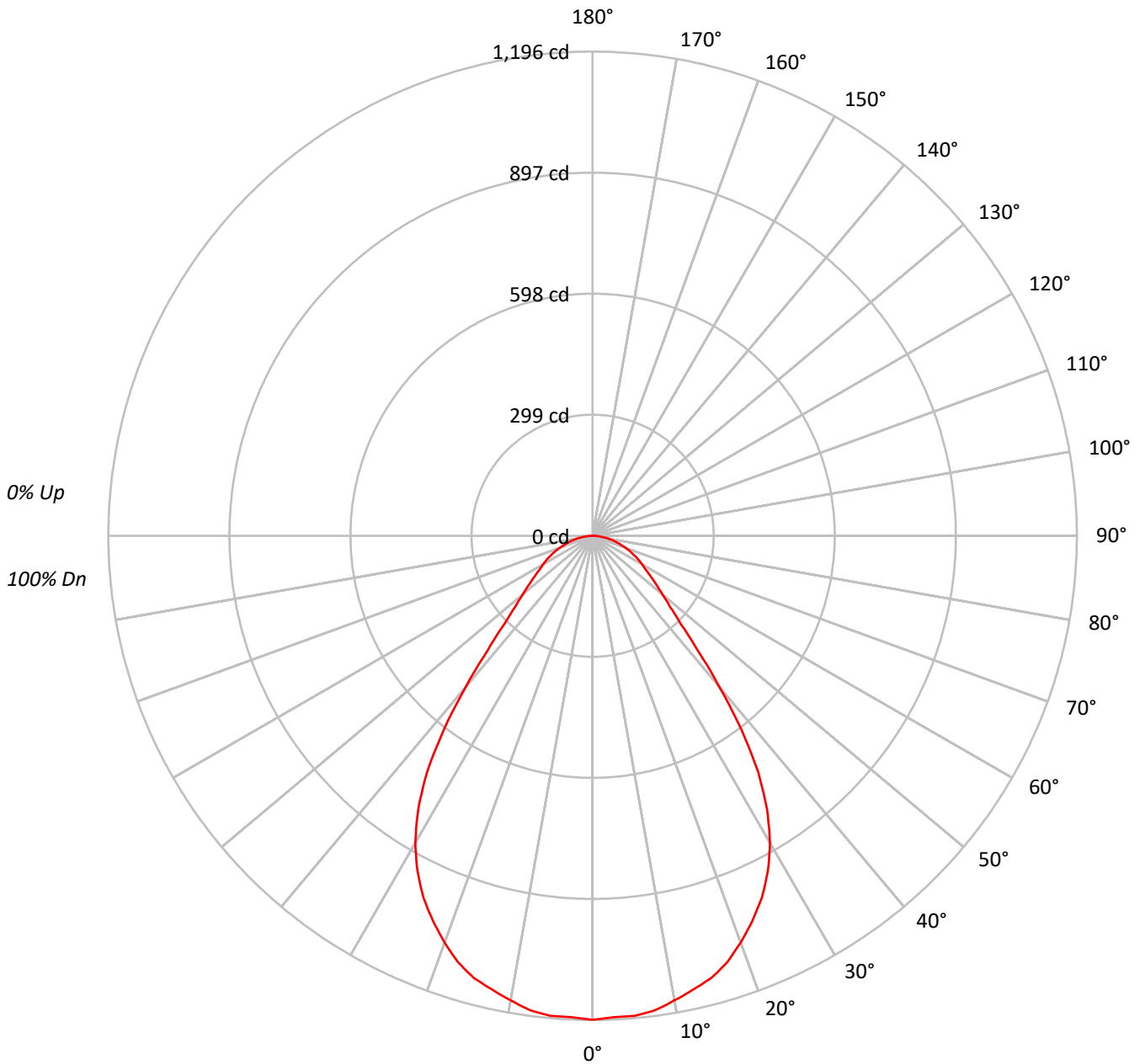
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																			
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	62	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°	65538
5°	65496
10°	64867
15°	64194
20°	62375
25°	59737
30°	55445
35°	47703
40°	34822
45°	23855
50°	19181
55°	16716
60°	15426
65°	14671
70°	13704
75°	12814
80°	11618
85°	9875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	5.9
10°-20°	317.7	16.5
20°-30°	451.8	23.5
30°-40°	434.9	22.6
40°-50°	250.2	13.0
50°-60°	158.6	8.3
60°-70°	112.2	5.8
70°-80°	64.0	3.3
80°-90°	18.2	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°	882.3	45.9
0°-40°	1317.2	68.6
0°-60°	1726.0	89.9
0°-90°	1920.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1196	
5°	1190	113
15°	1131	318
25°	988	452
35°	713	435
45°	308	250
55°	175	159
65°	113	112
75°	60	64
85°	16	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1195.5
2.5°	1190.2
5°	1190.2
7.5°	1182.3
10°	1165.3
12.5°	1148.2
15°	1131.1
17.5°	1104.8
20°	1069.2
22.5°	1029.8
25°	987.6
27.5°	936.4
30°	875.9
32.5°	802.3
35°	712.8
37.5°	603.7
40°	486.6
42.5°	384.0
45°	307.7
47.5°	259.1
50°	224.9
52.5°	197.3
55°	174.9
57.5°	155.2
60°	140.7
62.5°	127.6
65°	113.1
67.5°	99.9
70°	85.5
72.5°	72.3
75°	60.5
77.5°	48.6
80°	36.8
82.5°	26.3
85°	15.7
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)