

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: P582463

Luminaire Tested: **HC640D010-HM63040835-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582463  
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: HC640D010-HM63040835-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4590.9 lumens  
Efficiency: N/A  
Efficacy: 112.0 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

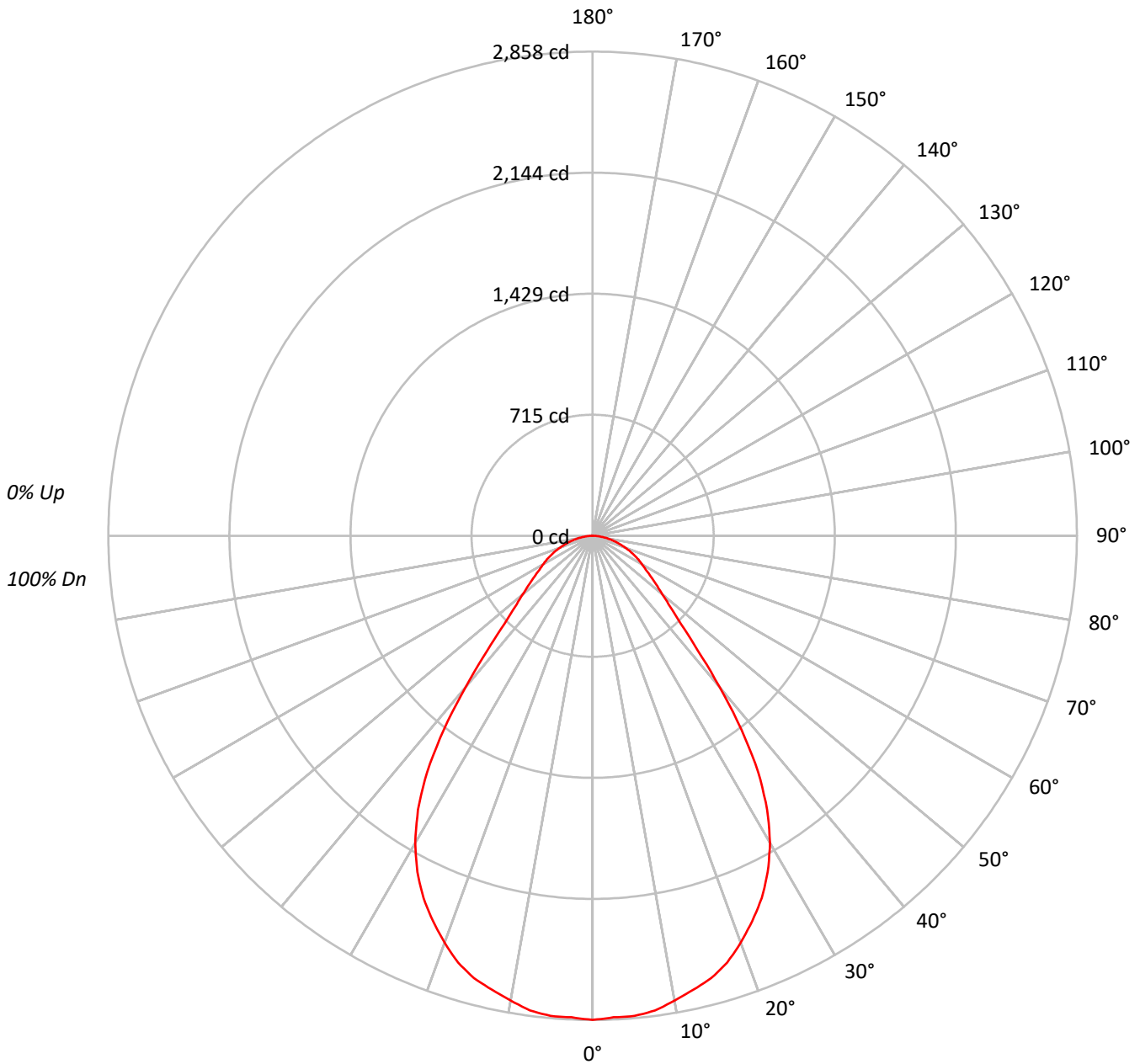
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	156660
5°	156570
10°	155057
15°	153452
20°	149113
25°	142811
30°	132539
35°	114037
40°	83242
45°	57037
50°	45849
55°	39960
60°	36872
65°	35075
70°	32746
75°	30628
80°	27781
85°	23713



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.7	5.9
10°-20°	759.3	16.5
20°-30°	1079.9	23.5
30°-40°	1039.7	22.6
40°-50°	598.2	13.0
50°-60°	379.0	8.3
60°-70°	268.3	5.8
70°-80°	152.9	3.3
80°-90°	43.6	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°	2109.0	45.9
0°-40°	3148.7	68.6
0°-60°	4126.0	89.9
0°-90°	4590.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4590.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2858	
5°	2845	270
15°	2704	759
25°	2361	1080
35°	1704	1040
45°	736	598
55°	418	379
65°	270	268
75°	145	153
85°	38	44
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2857.7
2.5°	2845.2
5°	2845.2
7.5°	2826.4
10°	2785.5
12.5°	2744.6
15°	2703.8
17.5°	2640.9
20°	2556.0
22.5°	2461.6
25°	2361.0
27.5°	2238.5
30°	2093.8
32.5°	1917.8
35°	1704.0
37.5°	1443.1
40°	1163.2
42.5°	918.0
45°	735.7
47.5°	619.4
50°	537.6
52.5°	471.5
55°	418.1
57.5°	371.0
60°	336.3
62.5°	305.0
65°	270.4
67.5°	239.0
70°	204.3
72.5°	172.9
75°	144.6
77.5°	116.3
80°	88.0
82.5°	62.9
85°	37.7
87.5°	15.7
90°	0.0



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— 0°-180°







(END OF REPORT)