

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: P593334

Luminaire Tested: **HC645D010-HM64560950-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593334  
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: HC645D010-HM64560950-61WDW  
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: 4618.5 lumens  
Efficiency: N/A  
Efficacy: 105.0 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

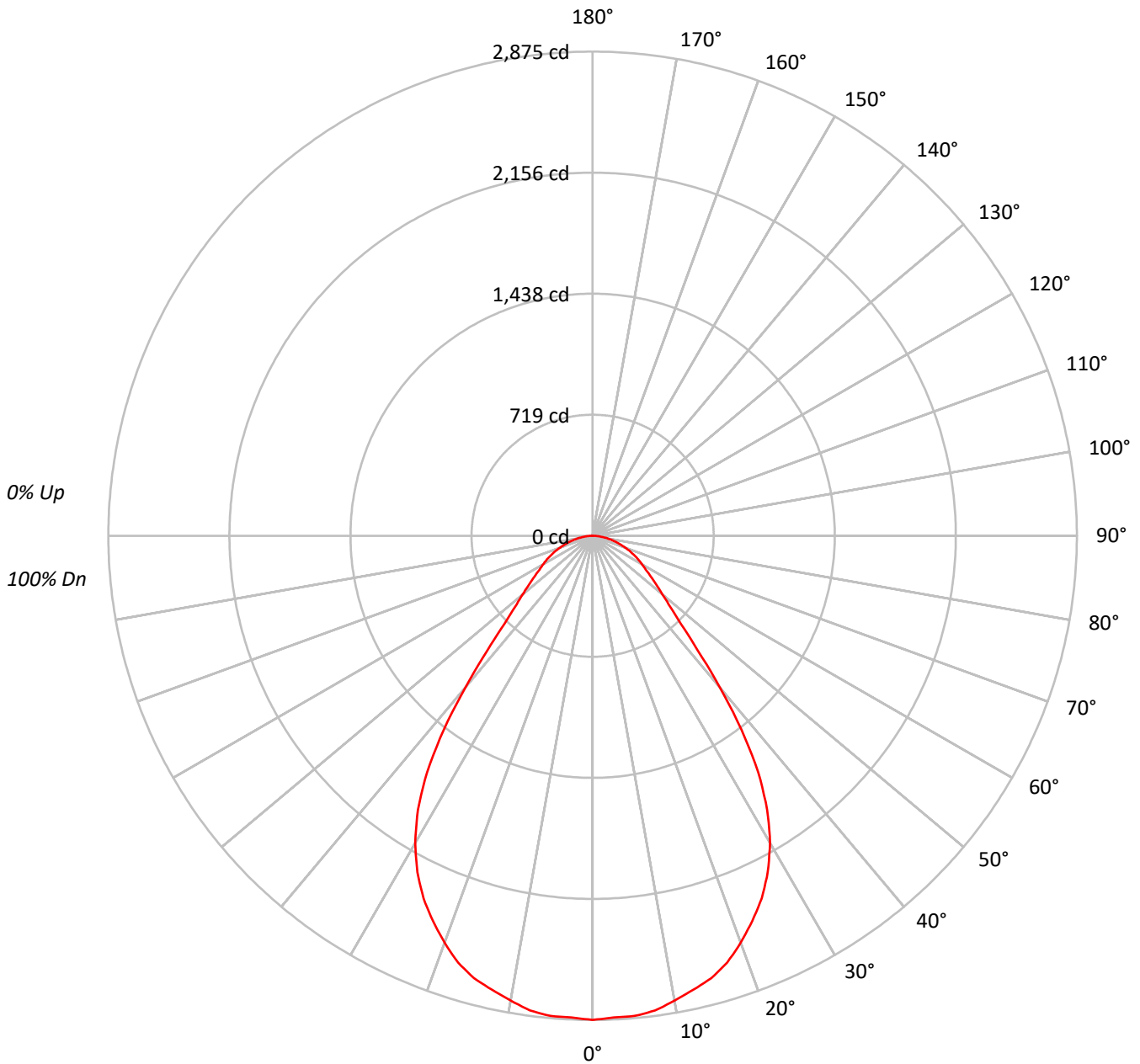
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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	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°	157608
5°	157517
10°	155992
15°	154377
20°	150006
25°	143676
30°	133343
35°	114720
40°	83750
45°	57370
50°	46131
55°	40199
60°	37102
65°	35283
70°	32954
75°	30818
80°	27971
85°	23902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.3	5.9
10°-20°	763.9	16.5
20°-30°	1086.4	23.5
30°-40°	1046.0	22.6
40°-50°	601.8	13.0
50°-60°	381.3	8.3
60°-70°	269.9	5.8
70°-80°	153.9	3.3
80°-90°	43.9	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°	2121.7	45.9
0°-40°	3167.7	68.6
0°-60°	4150.8	89.9
0°-90°	4618.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4618.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2875	
5°	2862	271
15°	2720	764
25°	2375	1086
35°	1714	1046
45°	740	602
55°	421	381
65°	272	270
75°	146	154
85°	38	44
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2875.0
2.5°	2862.4
5°	2862.4
7.5°	2843.4
10°	2802.3
12.5°	2761.1
15°	2720.1
17.5°	2656.7
20°	2571.3
22.5°	2476.4
25°	2375.3
27.5°	2251.9
30°	2106.5
32.5°	1929.4
35°	1714.2
37.5°	1451.7
40°	1170.3
42.5°	923.5
45°	740.0
47.5°	623.1
50°	540.9
52.5°	474.5
55°	420.6
57.5°	373.2
60°	338.4
62.5°	306.7
65°	272.0
67.5°	240.3
70°	205.6
72.5°	174.0
75°	145.5
77.5°	117.1
80°	88.6
82.5°	63.2
85°	38.0
87.5°	15.8
90°	0.0



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— 0°-180°







(END OF REPORT)