

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: P582319

Luminaire Tested: **HC635D010-HM63040835-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582319  
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: HC635D010-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: 3953.4 lumens  
Efficiency: N/A  
Efficacy: 117.3 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

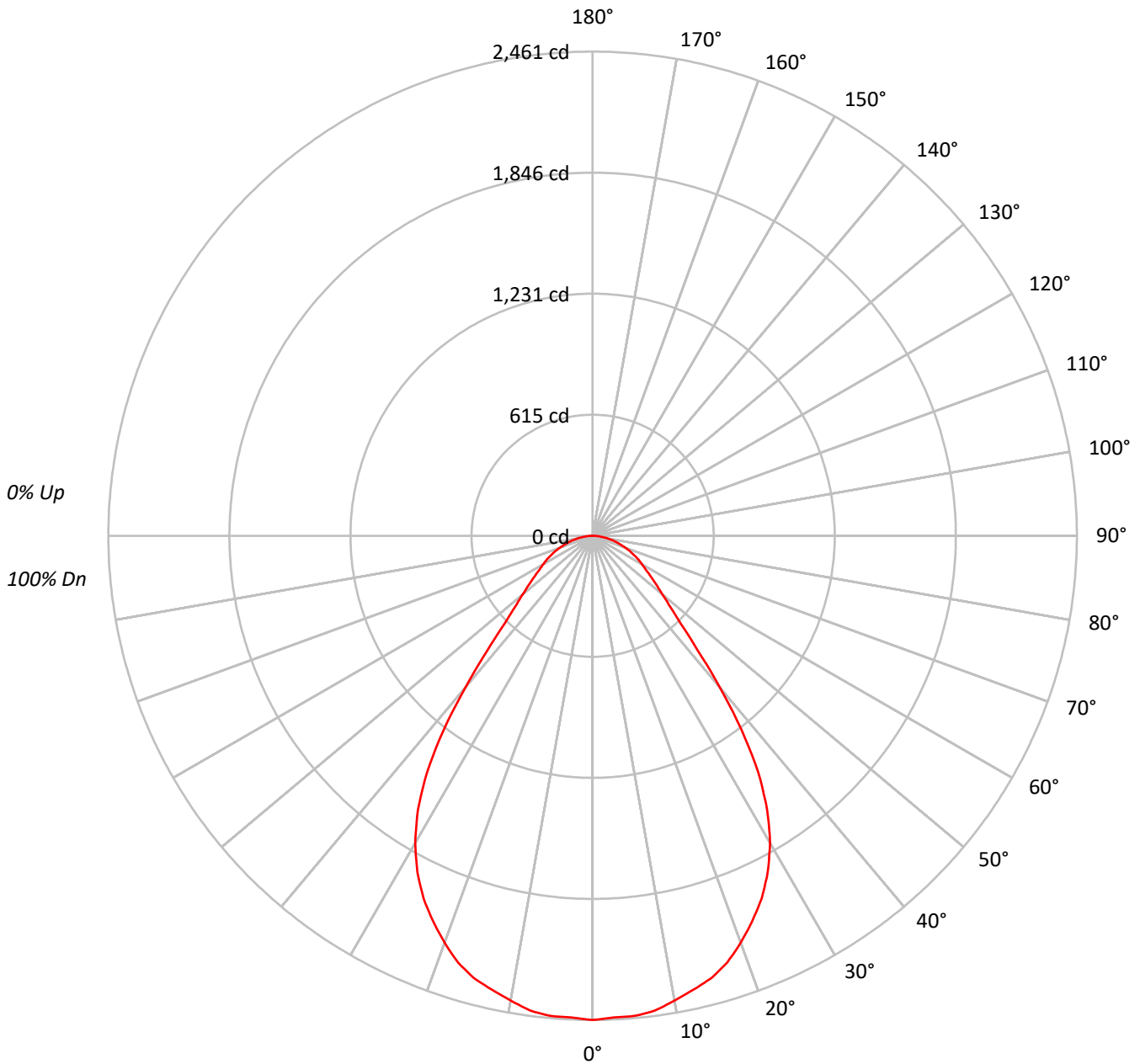
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	134918
5°	134833
10°	133531
15°	132146
20°	128409
25°	122989
30°	114138
35°	98203
40°	71691
45°	49121
50°	39478
55°	34417
60°	31752
65°	30198
70°	28210
75°	26370
80°	23961
85°	20379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.3	5.9
10°-20°	653.9	16.5
20°-30°	930.0	23.5
30°-40°	895.4	22.6
40°-50°	515.2	13.0
50°-60°	326.4	8.3
60°-70°	231.0	5.8
70°-80°	131.7	3.3
80°-90°	37.5	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°	1816.2	45.9
0°-40°	2711.6	68.6
0°-60°	3553.1	89.9
0°-90°	3953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3953.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2461	
5°	2450	232
15°	2328	654
25°	2033	930
35°	1467	895
45°	634	515
55°	360	326
65°	233	231
75°	124	132
85°	32	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2461.1
2.5°	2450.2
5°	2450.2
7.5°	2434.0
10°	2398.8
12.5°	2363.5
15°	2328.4
17.5°	2274.2
20°	2201.1
22.5°	2119.9
25°	2033.3
27.5°	1927.7
30°	1803.1
32.5°	1651.5
35°	1467.4
37.5°	1242.7
40°	1001.8
42.5°	790.5
45°	633.6
47.5°	533.3
50°	462.9
52.5°	406.1
55°	360.1
57.5°	319.5
60°	289.6
62.5°	262.6
65°	232.8
67.5°	205.7
70°	176.0
72.5°	148.9
75°	124.5
77.5°	100.1
80°	75.9
82.5°	54.1
85°	32.4
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)