

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: P593244

Luminaire Tested: **HC635D010-HM63040850-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593244  
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-HM63040850-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4154.1 lumens  
Efficiency: N/A  
Efficacy: 123.3 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

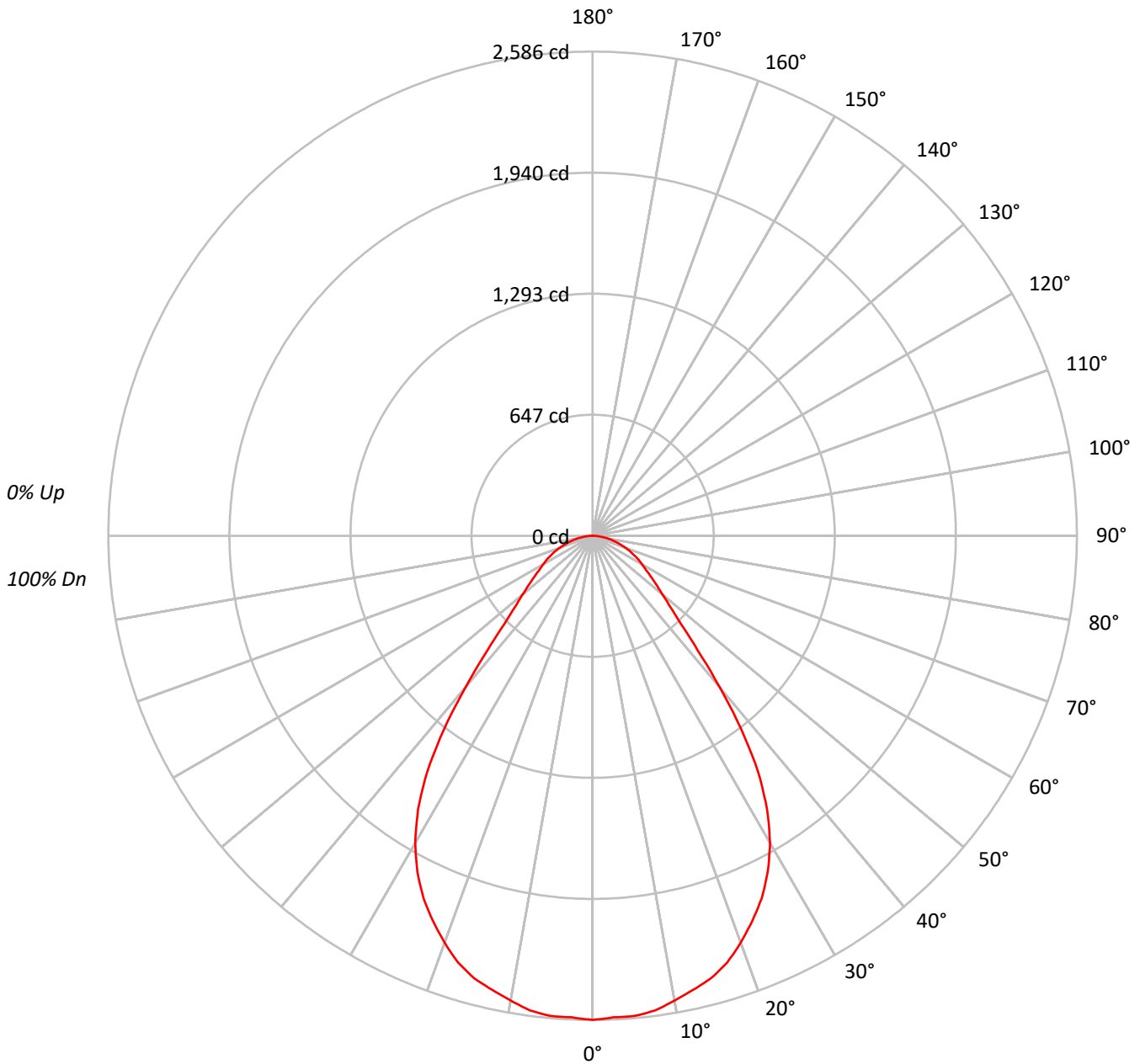
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	141754
5°	141674
10°	140306
15°	138849
20°	134925
25°	129225
30°	119930
35°	103182
40°	75320
45°	51610
50°	41483
55°	36156
60°	33375
65°	31728
70°	29636
75°	27705
80°	25161
85°	21511



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	5.9
10°-20°	687.1	16.5
20°-30°	977.2	23.5
30°-40°	940.8	22.6
40°-50°	541.3	13.0
50°-60°	342.9	8.3
60°-70°	242.8	5.8
70°-80°	138.4	3.3
80°-90°	39.5	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°	1908.3	45.9
0°-40°	2849.1	68.6
0°-60°	3733.4	89.9
0°-90°	4154.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4154.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2586	
5°	2574	244
15°	2446	687
25°	2136	977
35°	1542	941
45°	666	541
55°	378	343
65°	245	243
75°	131	138
85°	34	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2585.8
2.5°	2574.5
5°	2574.5
7.5°	2557.4
10°	2520.5
12.5°	2483.5
15°	2446.5
17.5°	2389.5
20°	2312.8
22.5°	2227.5
25°	2136.4
27.5°	2025.4
30°	1894.6
32.5°	1735.3
35°	1541.8
37.5°	1305.8
40°	1052.5
42.5°	830.7
45°	665.7
47.5°	560.4
50°	486.4
52.5°	426.7
55°	378.3
57.5°	335.6
60°	304.4
62.5°	276.0
65°	244.6
67.5°	216.2
70°	184.9
72.5°	156.5
75°	130.8
77.5°	105.3
80°	79.7
82.5°	56.9
85°	34.2
87.5°	14.2
90°	0.0



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— 0°-180°







(END OF REPORT)