

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: P582481

Luminaire Tested: **HC640D010-HM63040840-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582481  
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-HM63040840-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4823.8 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

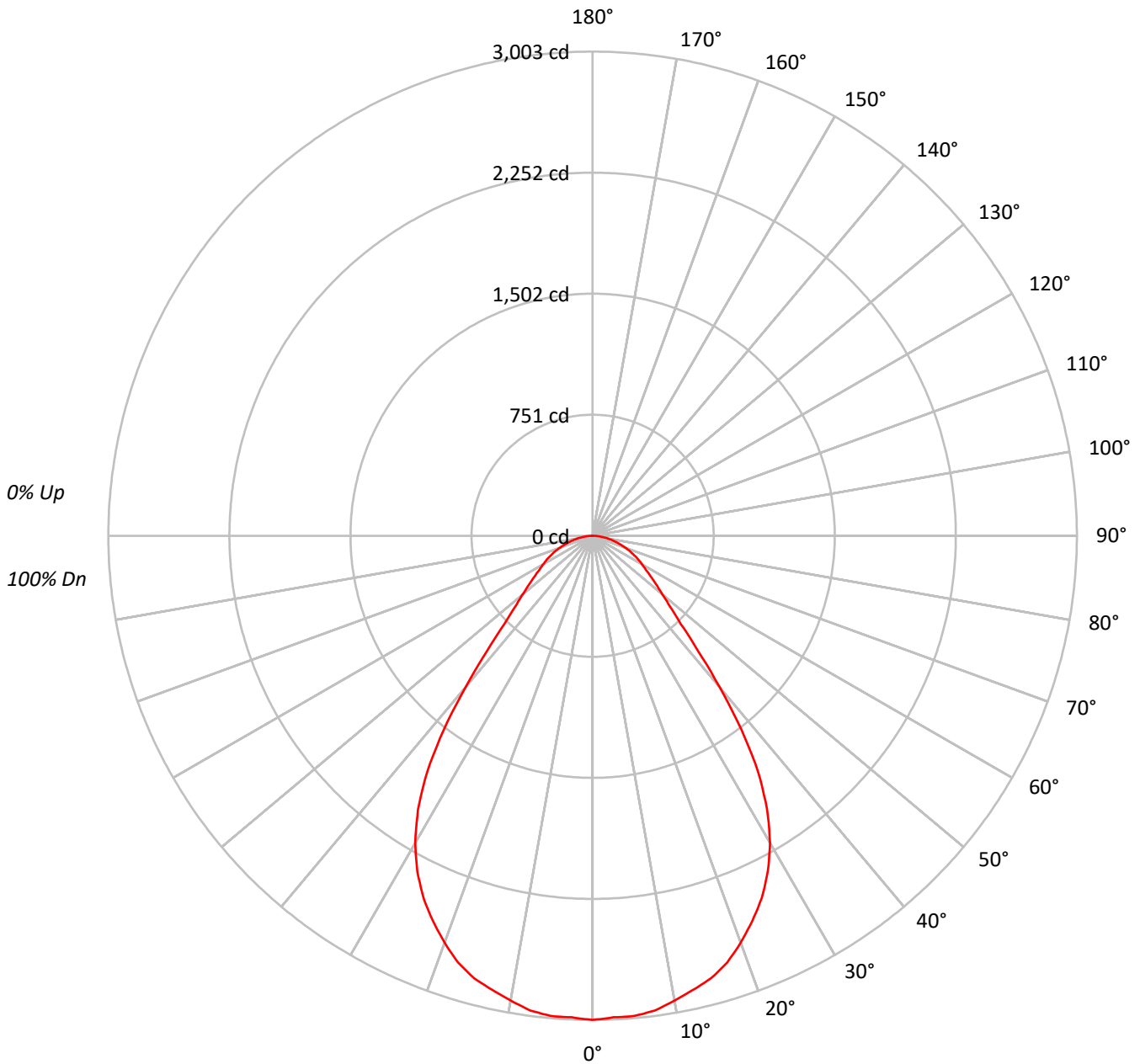
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	164609
5°	164511
10°	162917
15°	161232
20°	156674
25°	150057
30°	139268
35°	119819
40°	87464
45°	59921
50°	48178
55°	41996
60°	38758
65°	36852
70°	34413
75°	32174
80°	29202
85°	24971



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.4	5.9
10°-20°	797.9	16.5
20°-30°	1134.7	23.5
30°-40°	1092.4	22.6
40°-50°	628.6	13.0
50°-60°	398.3	8.3
60°-70°	281.9	5.8
70°-80°	160.7	3.3
80°-90°	45.8	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°	2216.0	45.9
0°-40°	3308.4	68.6
0°-60°	4335.3	89.9
0°-90°	4823.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4823.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3003	
5°	2990	283
15°	2841	798
25°	2481	1135
35°	1790	1092
45°	773	629
55°	439	398
65°	284	282
75°	152	161
85°	40	46
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3002.7
2.5°	2989.5
5°	2989.5
7.5°	2969.7
10°	2926.7
12.5°	2883.9
15°	2840.9
17.5°	2774.8
20°	2685.6
22.5°	2586.6
25°	2480.8
27.5°	2352.0
30°	2200.1
32.5°	2015.0
35°	1790.4
37.5°	1516.2
40°	1222.2
42.5°	964.6
45°	772.9
47.5°	650.8
50°	564.9
52.5°	495.5
55°	439.4
57.5°	389.8
60°	353.5
62.5°	320.4
65°	284.1
67.5°	251.0
70°	214.7
72.5°	181.6
75°	151.9
77.5°	122.3
80°	92.5
82.5°	66.1
85°	39.7
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)