

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: P582499

Luminaire Tested: **HC640D010-HM63040927-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582499  
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-HM63040927-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3481.9 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

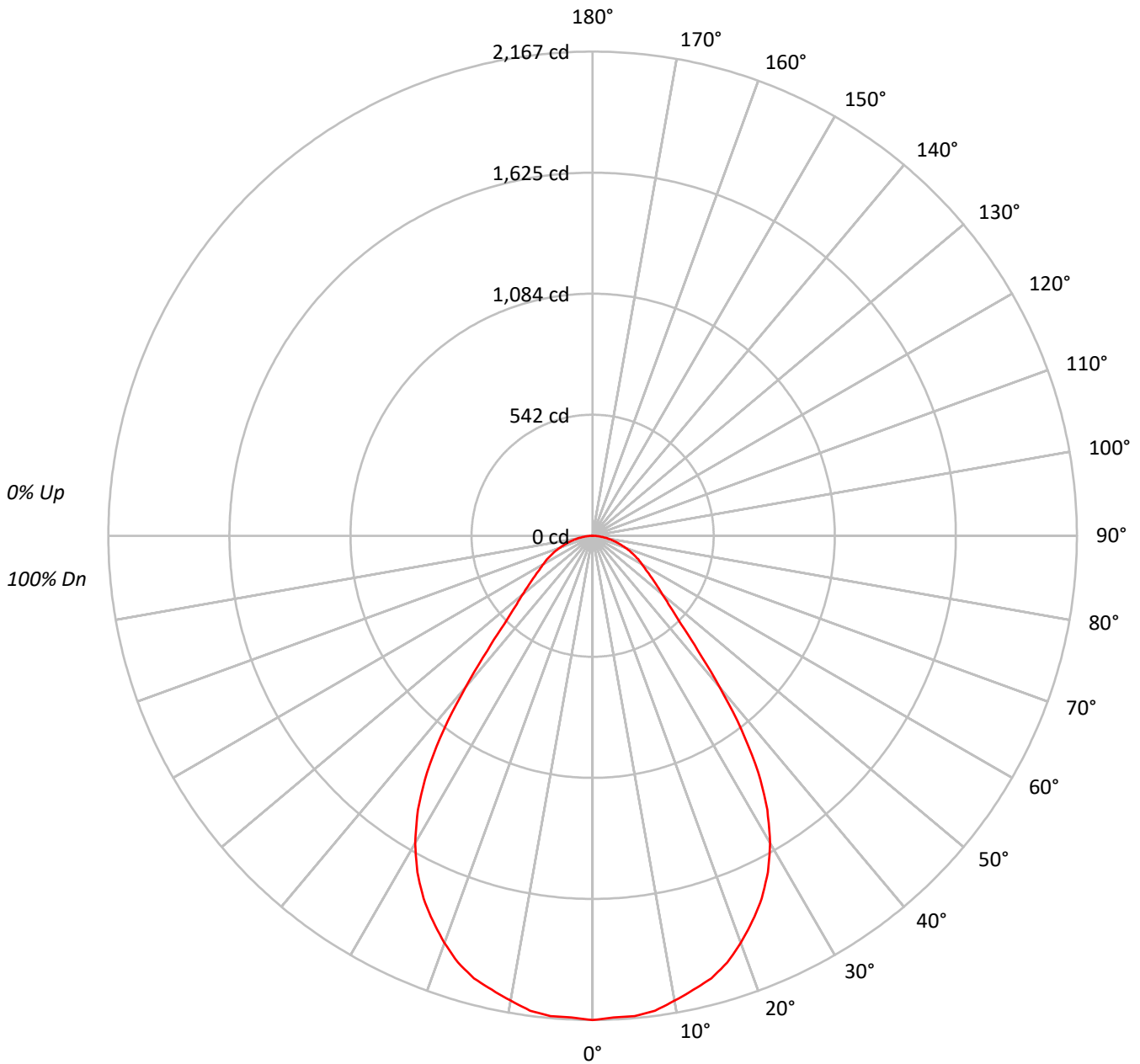
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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°	118817
5°	118748
10°	117600
15°	116380
20°	113089
25°	108315
30°	100528
35°	86491
40°	63140
45°	43253
50°	34771
55°	30307
60°	27969
65°	26605
70°	24844
75°	23235
80°	21057
85°	17989



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	5.9
10°-20°	575.9	16.5
20°-30°	819.1	23.5
30°-40°	788.6	22.6
40°-50°	453.7	13.0
50°-60°	287.5	8.3
60°-70°	203.5	5.8
70°-80°	116.0	3.3
80°-90°	33.1	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°	1599.5	45.9
0°-40°	2388.1	68.6
0°-60°	3129.3	89.9
0°-90°	3481.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3481.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2167	
5°	2158	205
15°	2051	576
25°	1791	819
35°	1292	789
45°	558	454
55°	317	287
65°	205	204
75°	110	116
85°	29	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2167.4
2.5°	2157.9
5°	2157.9
7.5°	2143.6
10°	2112.6
12.5°	2081.6
15°	2050.6
17.5°	2002.9
20°	1938.5
22.5°	1867.0
25°	1790.7
27.5°	1697.7
30°	1588.1
32.5°	1454.5
35°	1292.4
37.5°	1094.5
40°	882.3
42.5°	696.3
45°	557.9
47.5°	469.7
50°	407.7
52.5°	357.7
55°	317.1
57.5°	281.3
60°	255.1
62.5°	231.4
65°	205.1
67.5°	181.2
70°	155.0
72.5°	131.1
75°	109.7
77.5°	88.2
80°	66.7
82.5°	47.7
85°	28.6
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)