

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: P582475

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040840-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4678.4 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

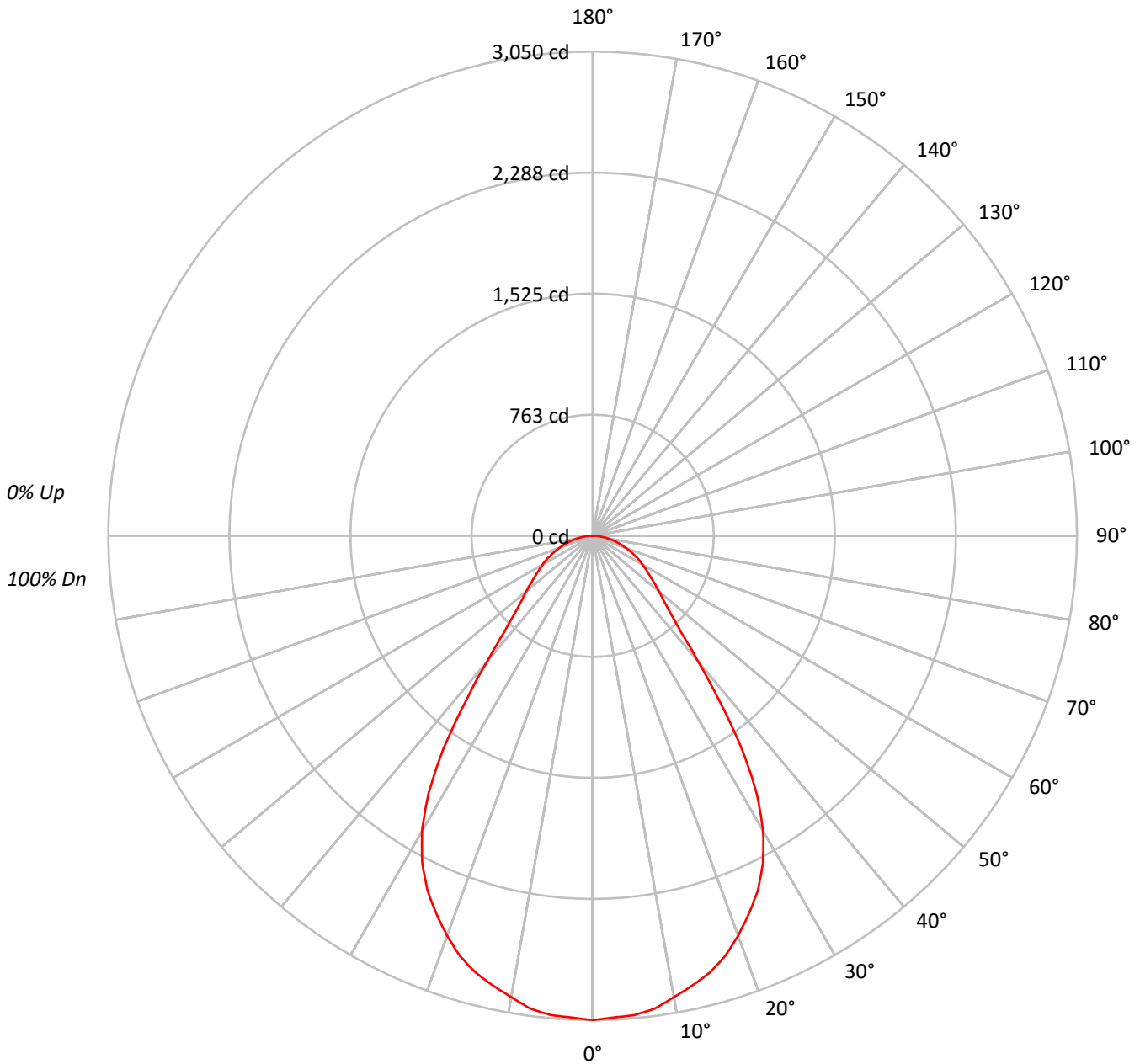
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	167218
5°	166762
10°	164276
15°	161669
20°	156353
25°	148920
30°	135977
35°	109473
40°	73788
45°	53812
50°	46506
55°	42006
60°	39854
65°	37721
70°	35503
75°	33614
80°	31317
85°	29122



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.8	6.1
10°-20°	800.0	17.1
20°-30°	1123.9	24.0
30°-40°	1000.5	21.4
40°-50°	559.1	12.0
50°-60°	398.3	8.5
60°-70°	289.8	6.2
70°-80°	167.8	3.6
80°-90°	52.2	1.1
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°	2210.7	47.3
0°-40°	3211.2	68.6
0°-60°	4168.7	89.1
0°-90°	4678.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4678.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3050	
5°	3030	287
15°	2849	800
25°	2462	1124
35°	1636	1000
45°	694	559
55°	440	398
65°	291	290
75°	159	168
85°	46	52
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3050.3
2.5°	3037.0
5°	3030.4
7.5°	3004.0
10°	2951.1
12.5°	2901.5
15°	2848.6
17.5°	2776.0
20°	2680.1
22.5°	2574.4
25°	2462.0
27.5°	2323.3
30°	2148.1
32.5°	1923.4
35°	1635.8
37.5°	1312.0
40°	1031.1
42.5°	822.9
45°	694.1
47.5°	608.1
50°	545.3
52.5°	489.1
55°	439.5
57.5°	399.9
60°	363.5
62.5°	330.4
65°	290.8
67.5°	257.7
70°	221.5
72.5°	188.4
75°	158.7
77.5°	128.9
80°	99.2
82.5°	72.7
85°	46.3
87.5°	23.1
90°	0.0



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— 0°-180°







(END OF REPORT)