

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: P582482

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040840-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5197.2 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

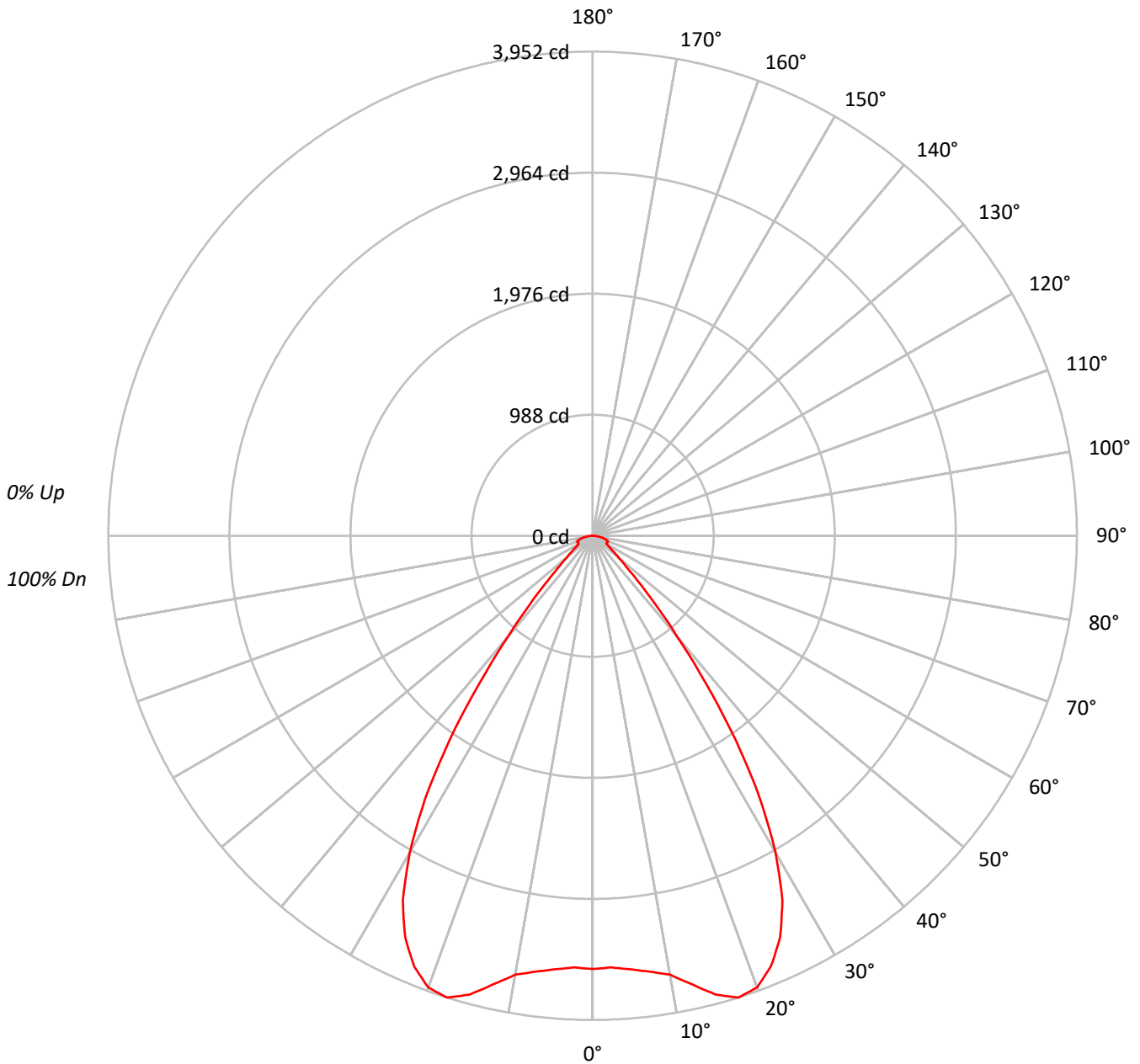
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

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

	0°
0°	193833
5°	195482
10°	202529
15°	219996
20°	228827
25°	218867
30°	188890
35°	136008
40°	76615
45°	39710
50°	23667
55°	17060
60°	14494
65°	16720
70°	21189
75°	22409
80°	21909
85°	20820



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.8	6.6
10°-20°	1093.3	21.0
20°-30°	1634.1	31.4
30°-40°	1249.1	24.0
40°-50°	436.3	8.4
50°-60°	166.3	3.2
60°-70°	130.4	2.5
70°-80°	110.3	2.1
80°-90°	35.5	0.7
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°	3069.2	59.1
0°-40°	4318.3	83.1
0°-60°	4920.9	94.7
0°-90°	5197.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5197.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3536	
5°	3552	342
15°	3876	1093
25°	3618	1634
35°	2032	1249
45°	512	436
55°	178	166
65°	129	130
75°	106	110
85°	33	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3535.8
2.5°	3526.0
5°	3552.3
7.5°	3588.7
10°	3638.3
12.5°	3750.7
15°	3876.3
17.5°	3952.3
20°	3922.4
22.5°	3803.5
25°	3618.4
27.5°	3354.1
30°	2984.0
32.5°	2541.2
35°	2032.3
37.5°	1506.8
40°	1070.6
42.5°	750.1
45°	512.2
47.5°	360.2
50°	277.5
52.5°	218.2
55°	178.5
57.5°	145.4
60°	132.2
62.5°	128.9
65°	128.9
67.5°	135.5
70°	132.2
72.5°	122.3
75°	105.8
77.5°	89.2
80°	69.4
82.5°	49.6
85°	33.1
87.5°	13.2
90°	0.0



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— 0°-180°







(END OF REPORT)