

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: P582487

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040927-61MDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3760.8 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

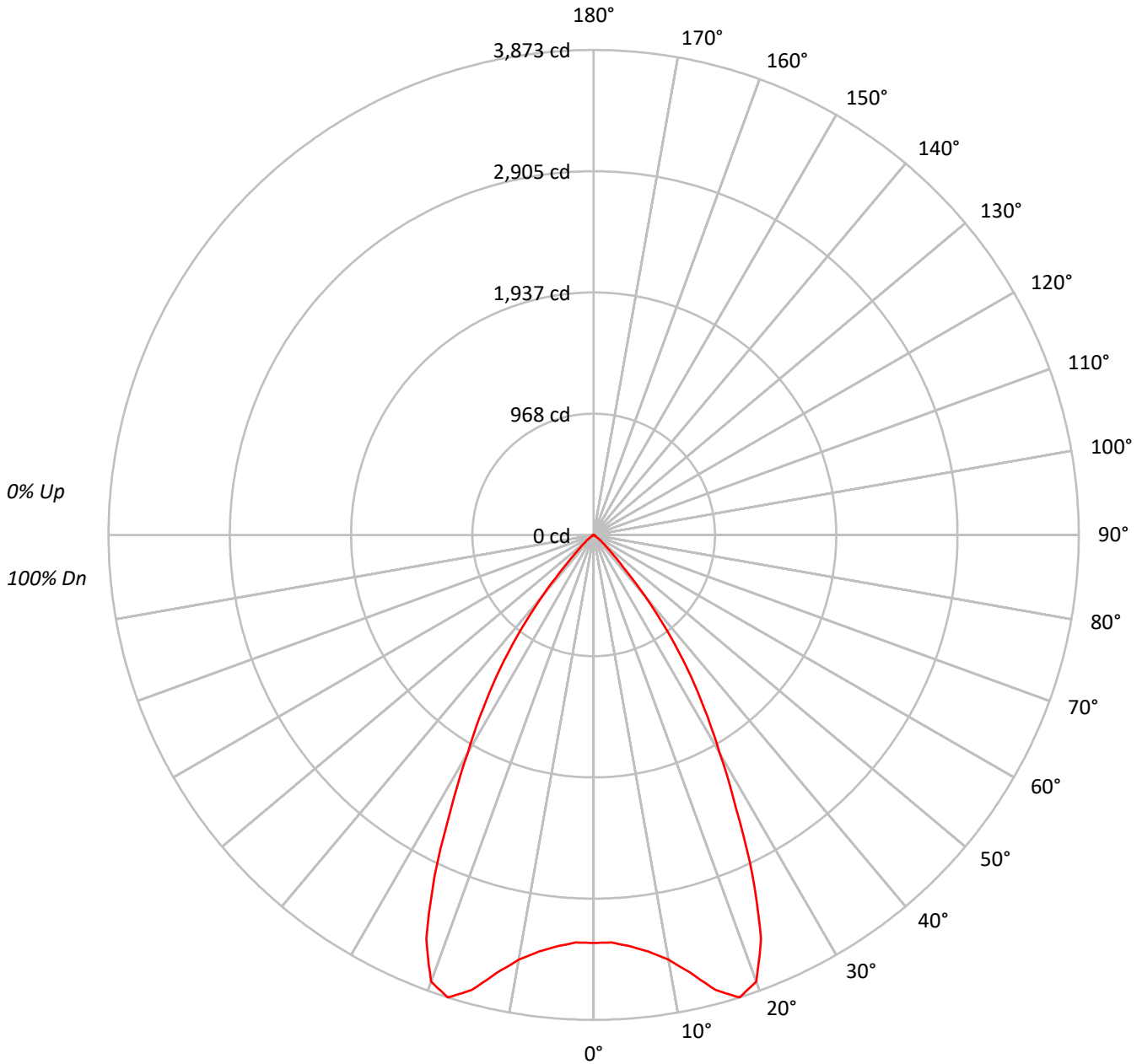
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			

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

	0°
0°	178593
5°	181377
10°	191708
15°	213458
20°	221365
25°	181625
30°	127273
35°	86826
40°	45235
45°	15901
50°	7121
55°	2284
60°	1305
65°	921
70°	753
75°	508
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.3	8.5
10°-20°	1057.8	28.1
20°-30°	1346.8	35.8
30°-40°	802.7	21.3
40°-50°	194.6	5.2
50°-60°	29.9	0.8
60°-70°	7.3	0.2
70°-80°	2.5	0.1
80°-90°	0.0	0.0
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°	2723.8	72.4
0°-40°	3526.5	93.8
0°-60°	3751.0	99.7
0°-90°	3760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3258	
5°	3296	319
15°	3761	1058
25°	3003	1347
35°	1297	803
45°	205	195
55°	24	30
65°	7	7
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3257.8
2.5°	3257.8
5°	3296.0
7.5°	3355.7
10°	3443.9
12.5°	3582.3
15°	3761.1
17.5°	3873.1
20°	3794.5
22.5°	3491.5
25°	3002.7
27.5°	2463.6
30°	2010.6
32.5°	1643.2
35°	1297.4
37.5°	956.4
40°	632.1
42.5°	341.1
45°	205.1
47.5°	128.7
50°	83.5
52.5°	50.1
55°	23.9
57.5°	14.2
60°	11.9
62.5°	9.5
65°	7.1
67.5°	4.7
70°	4.7
72.5°	2.4
75°	2.4
77.5°	2.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)