

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: P582546

Luminaire Tested: **HC640D010-HM63040940-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040940-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3921.2 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

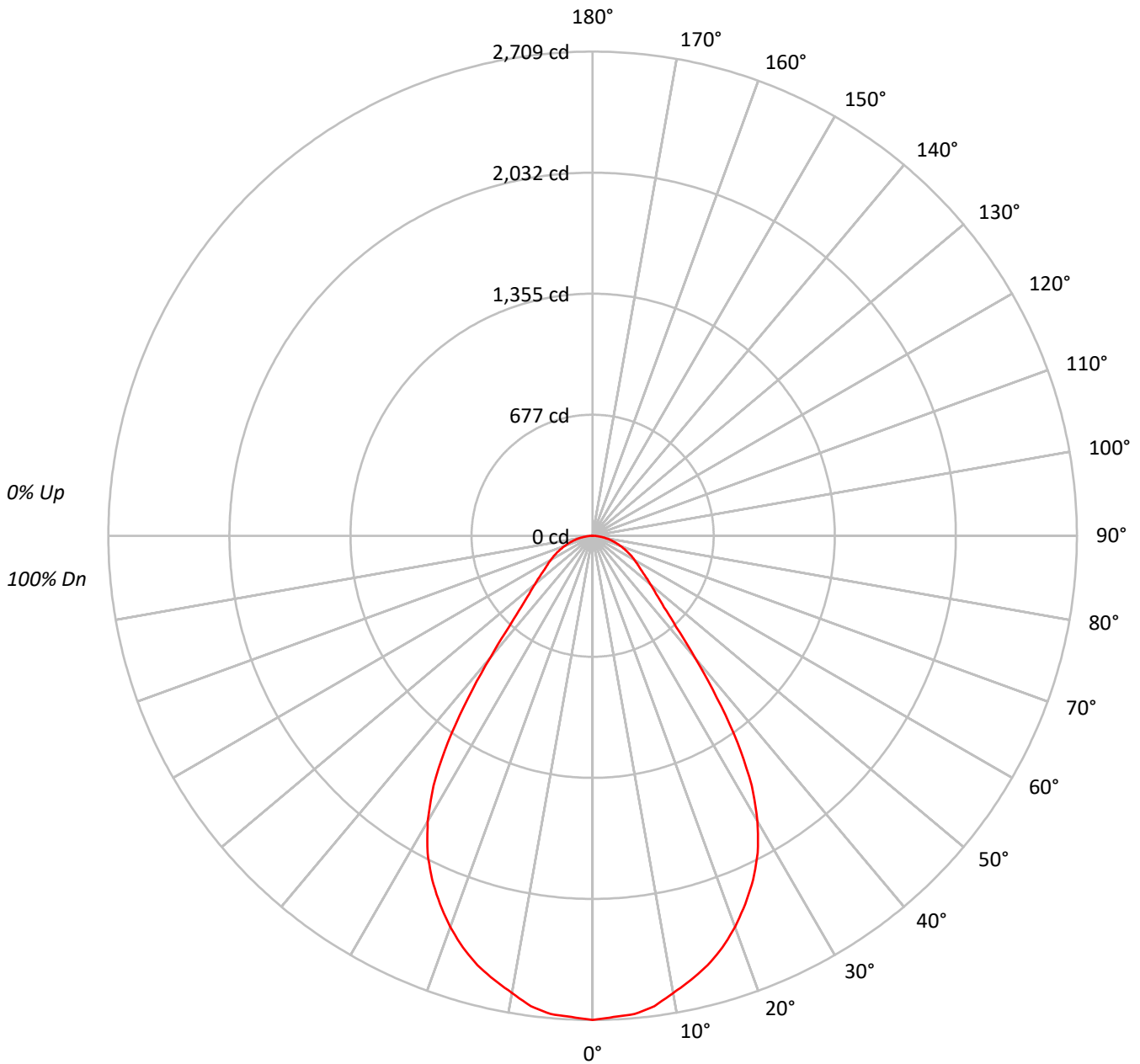
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	148519
5°	147815
10°	144553
15°	141159
20°	135858
25°	128481
30°	116765
35°	94515
40°	63734
45°	43795
50°	35888
55°	31406
60°	29702
65°	28045
70°	26335
75°	25036
80°	22730
85°	19939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.6	6.5
10°-20°	698.5	17.8
20°-30°	970.4	24.7
30°-40°	864.0	22.0
40°-50°	458.7	11.7
50°-60°	300.0	7.6
60°-70°	214.9	5.5
70°-80°	124.7	3.2
80°-90°	36.4	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°	1922.5	49.0
0°-40°	2786.5	71.1
0°-60°	3545.2	90.4
0°-90°	3921.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3921.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2709	
5°	2686	254
15°	2487	698
25°	2124	970
35°	1412	864
45°	565	459
55°	329	300
65°	216	215
75°	118	125
85°	32	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2709.2
2.5°	2694.8
5°	2686.1
7.5°	2654.5
10°	2596.8
12.5°	2544.9
15°	2487.2
17.5°	2415.2
20°	2328.8
22.5°	2230.8
25°	2124.1
27.5°	2000.3
30°	1844.6
32.5°	1657.2
35°	1412.3
37.5°	1141.3
40°	890.6
42.5°	691.7
45°	564.9
47.5°	481.3
50°	420.8
52.5°	371.8
55°	328.6
57.5°	296.9
60°	270.9
62.5°	244.9
65°	216.2
67.5°	190.2
70°	164.3
72.5°	141.3
75°	118.2
77.5°	95.1
80°	72.0
82.5°	51.8
85°	31.7
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)