

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: P582553

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582553
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-HM63040940-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4206.5 lumens
Efficiency: N/A
Efficacy: 102.6 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

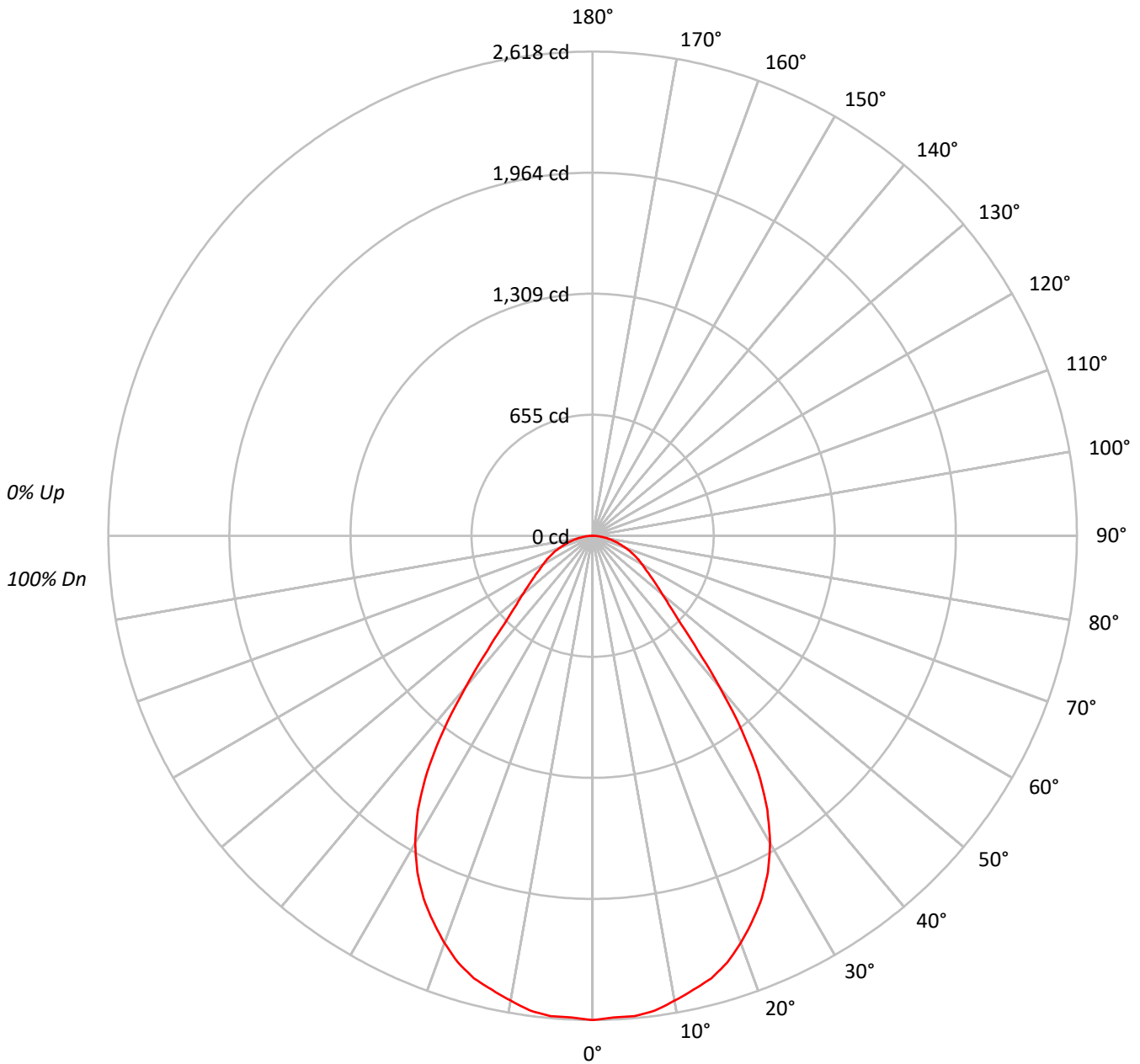
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143547
5°	143462
10°	142076
15°	140597
20°	136623
25°	130852
30°	121443
35°	104487
40°	76279
45°	52253
50°	42011
55°	36625
60°	33802
65°	32131
70°	30021
75°	28086
80°	25477
85°	21763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	5.9
10°-20°	695.7	16.5
20°-30°	989.5	23.5
30°-40°	952.7	22.6
40°-50°	548.1	13.0
50°-60°	347.3	8.3
60°-70°	245.9	5.8
70°-80°	140.2	3.3
80°-90°	40.0	1.0
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°	1932.4	45.9
0°-40°	2885.0	68.6
0°-60°	3780.5	89.9
0°-90°	4206.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4206.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2618	
5°	2607	247
15°	2477	696
25°	2163	990
35°	1561	953
45°	674	548
55°	383	347
65°	248	246
75°	133	140
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2618.5
2.5°	2607.0
5°	2607.0
7.5°	2589.7
10°	2552.3
12.5°	2514.8
15°	2477.3
17.5°	2419.7
20°	2341.9
22.5°	2255.5
25°	2163.3
27.5°	2051.0
30°	1918.5
32.5°	1757.2
35°	1561.3
37.5°	1322.2
40°	1065.9
42.5°	841.1
45°	674.0
47.5°	567.4
50°	492.6
52.5°	432.1
55°	383.2
57.5°	339.9
60°	308.3
62.5°	279.4
65°	247.7
67.5°	219.0
70°	187.3
72.5°	158.4
75°	132.6
77.5°	106.6
80°	80.7
82.5°	57.6
85°	34.6
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)