

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: P582528

Luminaire Tested: **HC640D010-HM63040935-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582528
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-HM63040935-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3822.7 lumens
Efficiency: N/A
Efficacy: 93.2 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

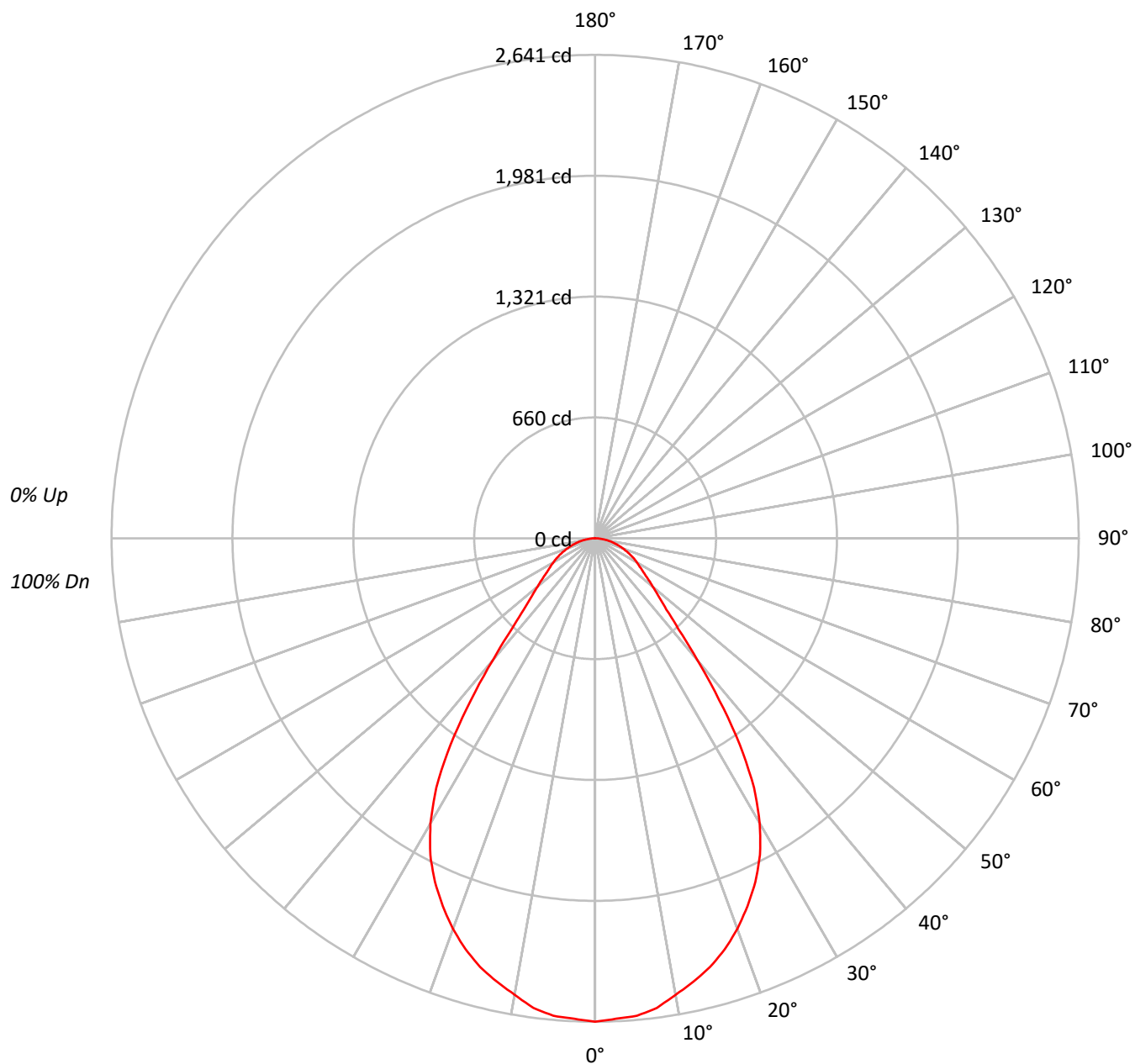
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94
2	104	97	92	87	101	95	90	86	92	88	84		89	85	83		86
3	97	88	82	77	94	87	81	76	84	79	75		81	77	73		79
4	90	81	73	68	88	79	73	68	77	71	67		75	70	66		73
5	84	74	67	61	83	73	66	61	71	65	60		69	64	60		67
6	79	68	61	55	77	67	60	55	66	59	55		64	59	54		63
7	74	63	56	50	73	62	55	50	61	55	50		60	54	50		58
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		54
9	66	55	48	43	65	54	47	43	53	47	42		52	46	42		51
10	62	51	44	40	61	51	44	40	50	44	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144791
5°	144100
10°	140924
15°	137611
20°	132446
25°	125251
30°	113828
35°	92140
40°	62131
45°	42694
50°	34984
55°	30613
60°	28956
65°	27344
70°	25661
75°	24379
80°	22193
85°	19436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	6.5
10°-20°	680.9	17.8
20°-30°	946.0	24.7
30°-40°	842.3	22.0
40°-50°	447.1	11.7
50°-60°	292.4	7.6
60°-70°	209.6	5.5
70°-80°	121.5	3.2
80°-90°	35.5	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°	1874.2	49.0
0°-40°	2716.5	71.1
0°-60°	3456.1	90.4
0°-90°	3822.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2641	
5°	2619	247
15°	2425	681
25°	2071	946
35°	1377	842
45°	551	447
55°	320	292
65°	211	210
75°	115	121
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2641.2
2.5°	2627.1
5°	2618.6
7.5°	2587.7
10°	2531.6
12.5°	2481.0
15°	2424.7
17.5°	2354.5
20°	2270.3
22.5°	2174.8
25°	2070.7
27.5°	1949.9
30°	1798.2
32.5°	1615.6
35°	1376.8
37.5°	1112.7
40°	868.2
42.5°	674.3
45°	550.7
47.5°	469.2
50°	410.2
52.5°	362.5
55°	320.3
57.5°	289.4
60°	264.1
62.5°	238.9
65°	210.8
67.5°	185.5
70°	160.1
72.5°	137.7
75°	115.1
77.5°	92.7
80°	70.3
82.5°	50.5
85°	30.9
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)