

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: P582525

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040935-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

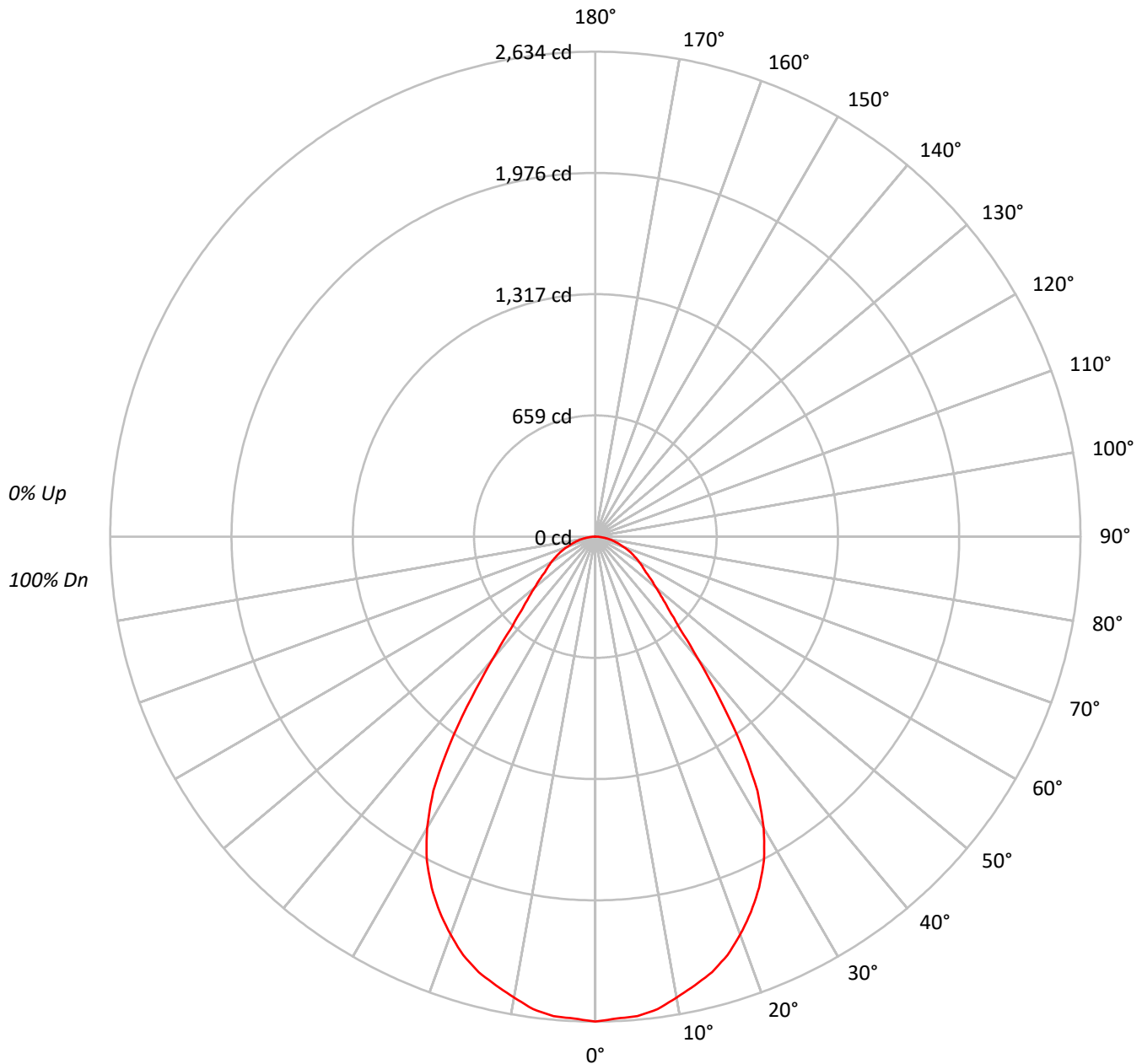
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82		86
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73
5	84	74	66	61	82	73	66	61	71	65	60		69	64	59		67
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62
7	74	63	55	50	73	62	55	50	61	54	50		59	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144391
5°	143864
10°	141464
15°	138968
20°	134167
25°	127223
30°	115714
35°	92454
40°	61694
45°	43974
50°	36638
55°	31932
60°	30162
65°	28421
70°	26110
75°	24379
80°	22162
85°	19436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	6.4
10°-20°	687.5	17.7
20°-30°	960.8	24.8
30°-40°	846.3	21.8
40°-50°	457.2	11.8
50°-60°	305.7	7.9
60°-70°	216.7	5.6
70°-80°	121.8	3.1
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°	1895.5	48.9
0°-40°	2741.9	70.7
0°-60°	3504.8	90.4
0°-90°	3878.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2634	
5°	2614	247
15°	2449	688
25°	2103	961
35°	1382	846
45°	567	457
55°	334	306
65°	219	217
75°	115	122
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2633.9
2.5°	2619.9
5°	2614.3
7.5°	2589.1
10°	2541.3
12.5°	2496.3
15°	2448.6
17.5°	2384.1
20°	2299.8
22.5°	2207.1
25°	2103.3
27.5°	1982.5
30°	1828.0
32.5°	1637.1
35°	1381.5
37.5°	1103.6
40°	862.1
42.5°	679.5
45°	567.2
47.5°	491.5
50°	429.6
52.5°	379.1
55°	334.1
57.5°	303.2
60°	275.1
62.5°	247.0
65°	219.1
67.5°	191.0
70°	162.9
72.5°	137.6
75°	115.1
77.5°	92.7
80°	70.2
82.5°	50.5
85°	30.9
87.5°	14.0
90°	0.0



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— 0°-180°







(END OF REPORT)