

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: P582426

Luminaire Tested: **HC640D010-HM63040827-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4177.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

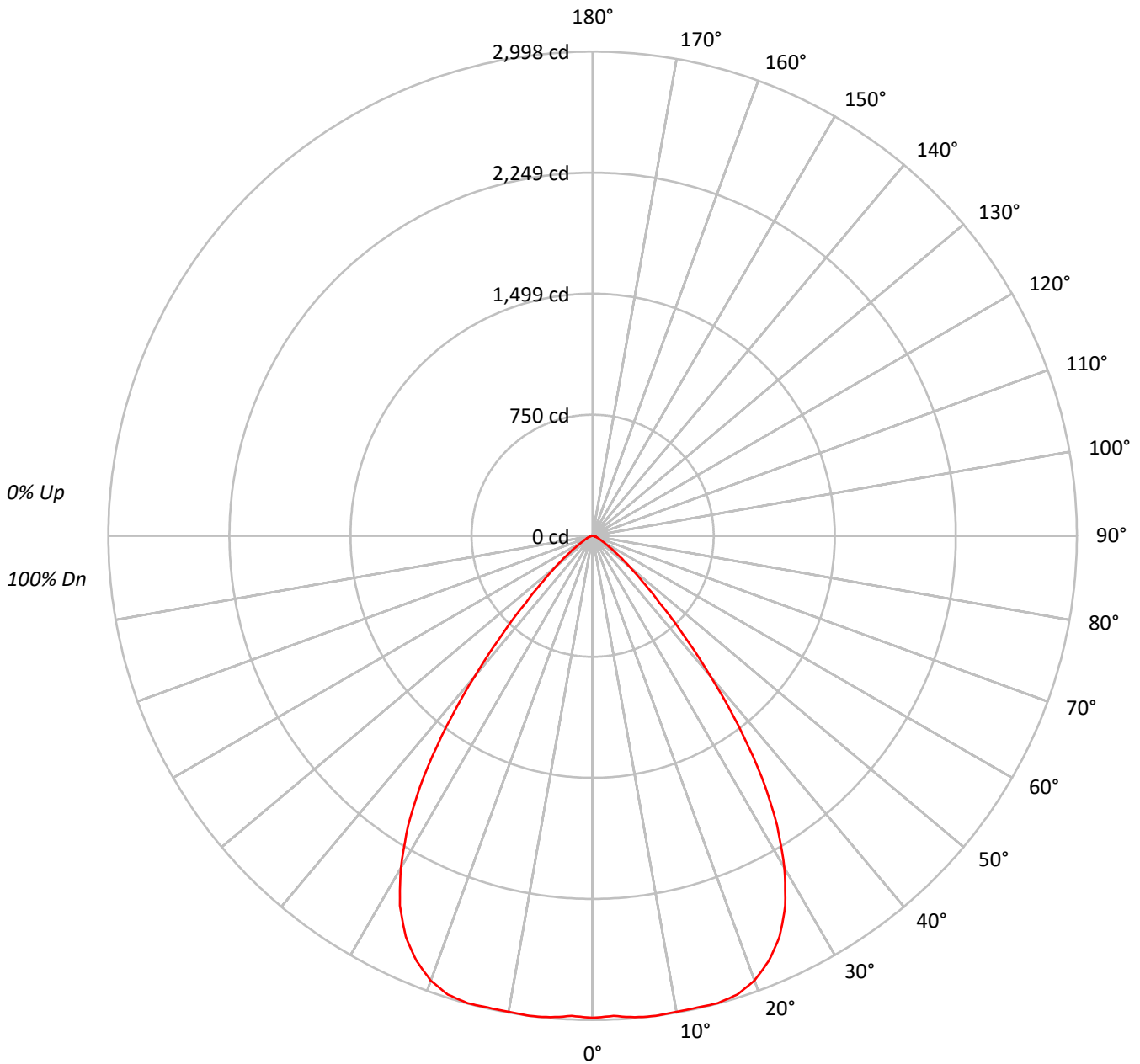
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	163605
5°	164693
10°	166597
15°	170012
20°	170972
25°	165645
30°	150270
35°	122175
40°	81102
45°	45136
50°	25313
55°	14040
60°	7752
65°	5863
70°	4087
75°	2987
80°	1799
85°	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	6.8
10°-20°	844.7	20.2
20°-30°	1244.9	29.8
30°-40°	1113.5	26.7
40°-50°	483.1	11.6
50°-60°	141.9	3.4
60°-70°	45.3	1.1
70°-80°	16.0	0.4
80°-90°	2.3	0.1
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°	2375.3	56.9
0°-40°	3488.8	83.5
0°-60°	4113.8	98.5
0°-90°	4177.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4177.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2984	
5°	2993	286
15°	2996	845
25°	2738	1245
35°	1826	1114
45°	582	483
55°	147	142
65°	45	45
75°	14	16
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2984.4
2.5°	2975.8
5°	2992.8
7.5°	2998.5
10°	2992.8
12.5°	2992.8
15°	2995.6
17.5°	2978.7
20°	2930.7
22.5°	2848.6
25°	2738.5
27.5°	2583.0
30°	2373.9
32.5°	2125.2
35°	1825.6
37.5°	1483.7
40°	1133.3
42.5°	828.1
45°	582.2
47.5°	415.5
50°	296.8
52.5°	212.0
55°	146.9
57.5°	98.9
60°	70.7
62.5°	56.6
65°	45.2
67.5°	33.9
70°	25.5
72.5°	19.8
75°	14.1
77.5°	11.3
80°	5.7
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)