

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: P582489

Luminaire Tested: **HC640D010-HM63040927-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582489
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-HM63040927-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3293.4 lumens
Efficiency: N/A
Efficacy: 80.3 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

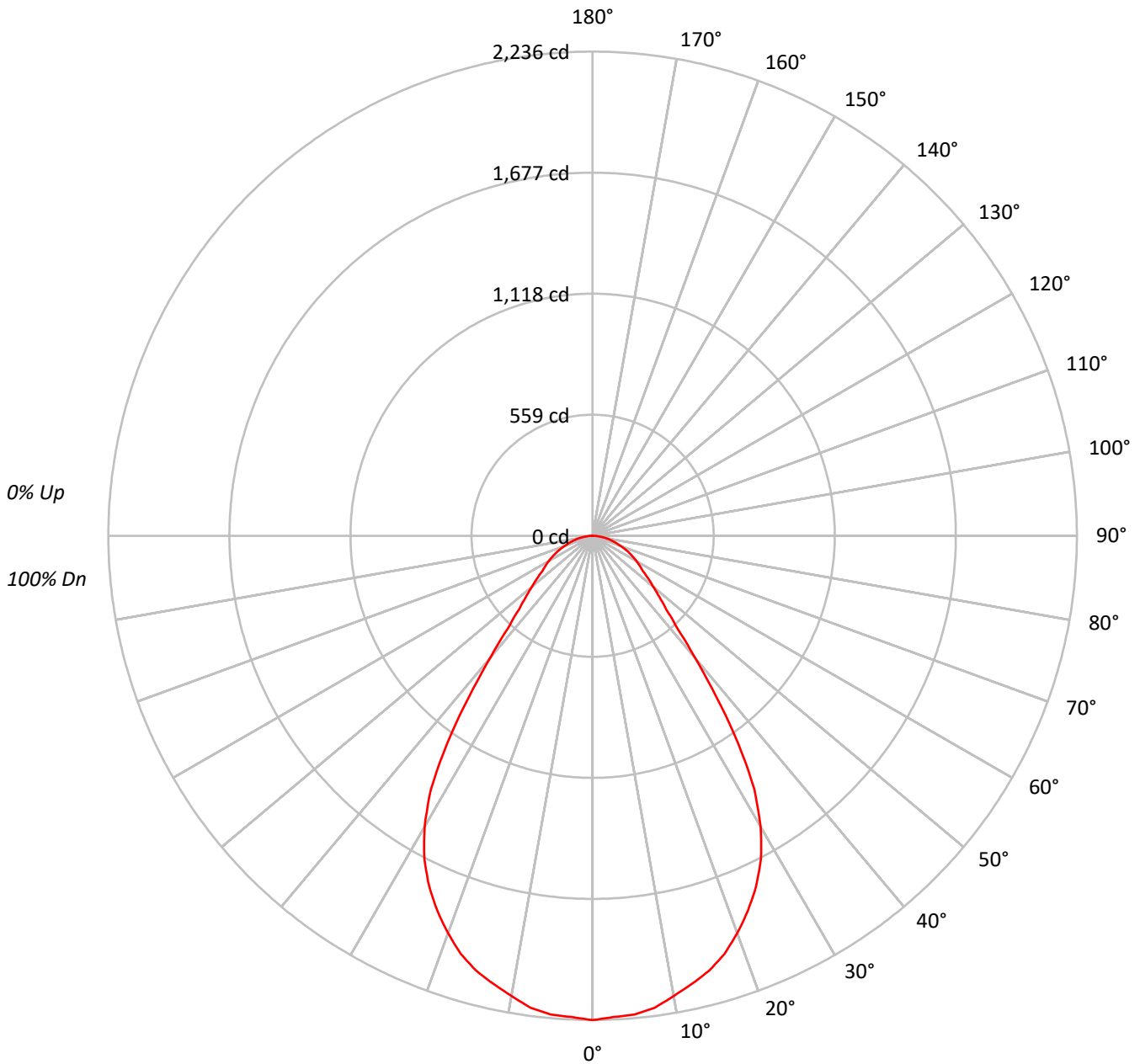
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	82	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122605
5°	122149
10°	120116
15°	117997
20°	113923
25°	108018
30°	98256
35°	78507
40°	52377
45°	37337
50°	31112
55°	27115
60°	25612
65°	24127
70°	22151
75°	20694
80°	18816
85°	16480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	6.4
10°-20°	583.8	17.7
20°-30°	815.8	24.8
30°-40°	718.6	21.8
40°-50°	388.2	11.8
50°-60°	259.6	7.9
60°-70°	184.0	5.6
70°-80°	103.4	3.1
80°-90°	30.1	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°	1609.5	48.9
0°-40°	2328.1	70.7
0°-60°	2975.8	90.4
0°-90°	3293.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3293.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2236	
5°	2220	210
15°	2079	584
25°	1786	816
35°	1173	719
45°	482	388
55°	284	260
65°	186	184
75°	98	103
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2236.5
2.5°	2224.5
5°	2219.7
7.5°	2198.2
10°	2157.8
12.5°	2119.6
15°	2079.1
17.5°	2024.3
20°	1952.8
22.5°	1874.0
25°	1785.8
27.5°	1683.3
30°	1552.2
32.5°	1390.1
35°	1173.1
37.5°	937.0
40°	731.9
42.5°	576.9
45°	481.6
47.5°	417.2
50°	364.8
52.5°	321.8
55°	283.7
57.5°	257.5
60°	233.6
62.5°	209.9
65°	186.0
67.5°	162.1
70°	138.2
72.5°	116.9
75°	97.7
77.5°	78.7
80°	59.6
82.5°	42.9
85°	26.2
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)