

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: P582417

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582417
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-HM63040827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3900.6 lumens
Efficiency: N/A
Efficacy: 95.1 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

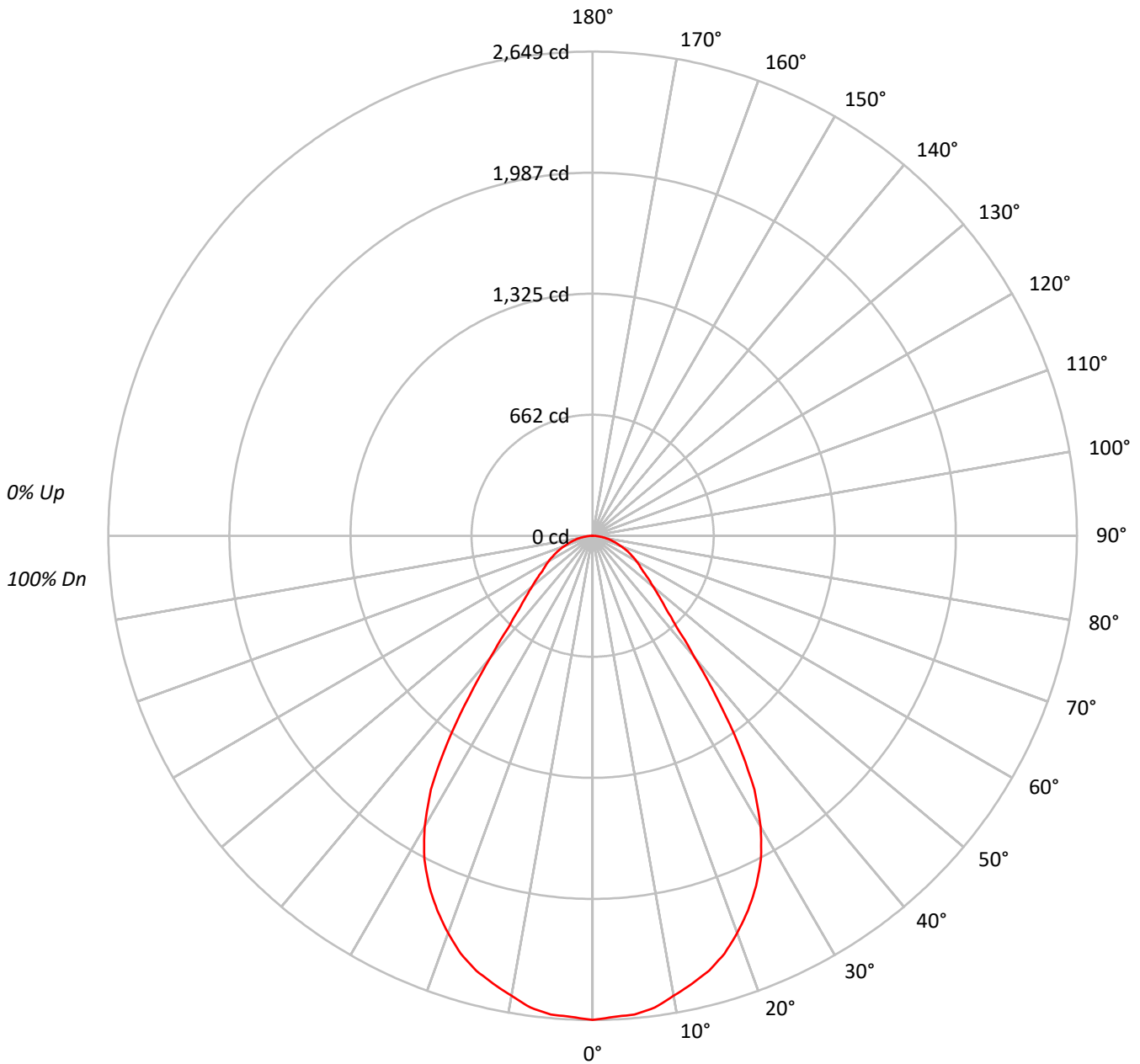
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	145202
5°	144667
10°	142260
15°	139745
20°	134919
25°	127931
30°	116366
35°	92976
40°	62031
45°	44229
50°	36852
55°	32123
60°	30337
65°	28576
70°	26254
75°	24527
80°	22288
85°	19499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	6.4
10°-20°	691.4	17.7
20°-30°	966.1	24.8
30°-40°	851.1	21.8
40°-50°	459.8	11.8
50°-60°	307.5	7.9
60°-70°	217.9	5.6
70°-80°	122.5	3.1
80°-90°	35.7	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°	1906.1	48.9
0°-40°	2757.2	70.7
0°-60°	3524.5	90.4
0°-90°	3900.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2649	
5°	2629	249
15°	2462	691
25°	2115	966
35°	1389	851
45°	570	460
55°	336	307
65°	220	218
75°	116	122
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2648.7
2.5°	2634.6
5°	2628.9
7.5°	2603.6
10°	2555.6
12.5°	2510.3
15°	2462.3
17.5°	2397.4
20°	2312.7
22.5°	2219.5
25°	2115.0
27.5°	1993.5
30°	1838.3
32.5°	1646.2
35°	1389.3
37.5°	1109.8
40°	866.8
42.5°	683.4
45°	570.5
47.5°	494.1
50°	432.1
52.5°	381.2
55°	336.1
57.5°	305.0
60°	276.7
62.5°	248.5
65°	220.3
67.5°	192.0
70°	163.8
72.5°	138.4
75°	115.8
77.5°	93.1
80°	70.6
82.5°	50.8
85°	31.0
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)