

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: P582453

Luminaire Tested: **HC640D010-HM63040835-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582453
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-HM63040835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4342.6 lumens
Efficiency: N/A
Efficacy: 105.9 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

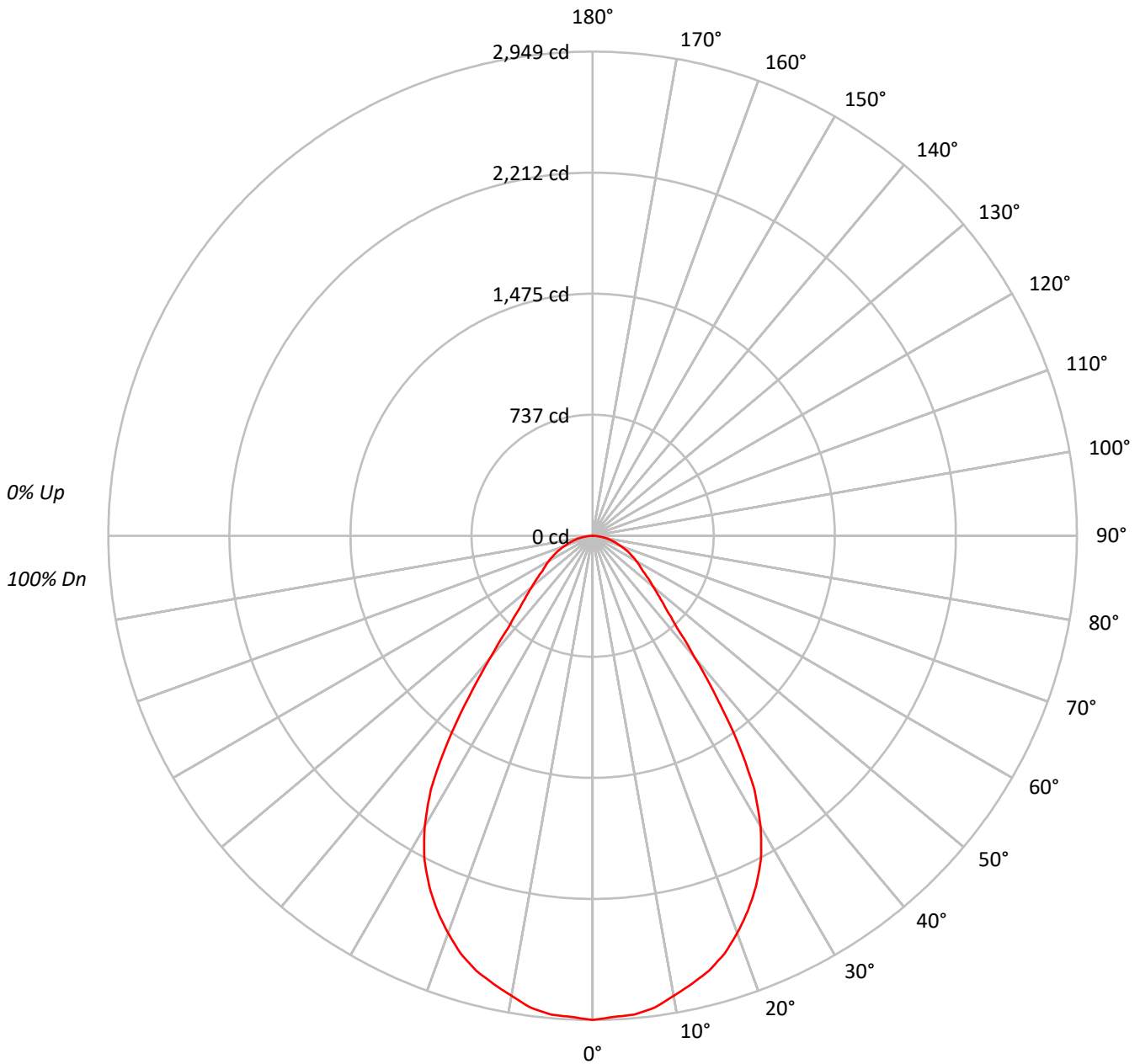
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	161654
5°	161066
10°	158375
15°	155580
20°	150204
25°	142430
30°	129552
35°	103510
40°	69065
45°	49230
50°	41022
55°	35755
60°	33780
65°	31806
70°	29220
75°	27302
80°	24814
85°	21763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	6.4
10°-20°	769.7	17.7
20°-30°	1075.6	24.8
30°-40°	947.5	21.8
40°-50°	511.9	11.8
50°-60°	342.3	7.9
60°-70°	242.6	5.6
70°-80°	136.4	3.1
80°-90°	39.8	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°	2122.1	48.9
0°-40°	3069.6	70.7
0°-60°	3923.8	90.4
0°-90°	4342.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4342.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2949	
5°	2927	277
15°	2741	770
25°	2355	1076
35°	1547	947
45°	635	512
55°	374	342
65°	245	243
75°	129	136
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2948.8
2.5°	2933.1
5°	2926.9
7.5°	2898.5
10°	2845.1
12.5°	2794.8
15°	2741.3
17.5°	2669.0
20°	2574.7
22.5°	2471.0
25°	2354.7
27.5°	2219.5
30°	2046.6
32.5°	1832.8
35°	1546.7
37.5°	1235.5
40°	965.1
42.5°	760.8
45°	635.0
47.5°	550.2
50°	481.0
52.5°	424.5
55°	374.1
57.5°	339.5
60°	308.1
62.5°	276.6
65°	245.2
67.5°	213.8
70°	182.3
72.5°	154.1
75°	128.9
77.5°	103.8
80°	78.6
82.5°	56.6
85°	34.6
87.5°	15.7
90°	0.0



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— 0°-180°







(END OF REPORT)