

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: P582511

Luminaire Tested: **HC640D010-HM63040930-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040930-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4033.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

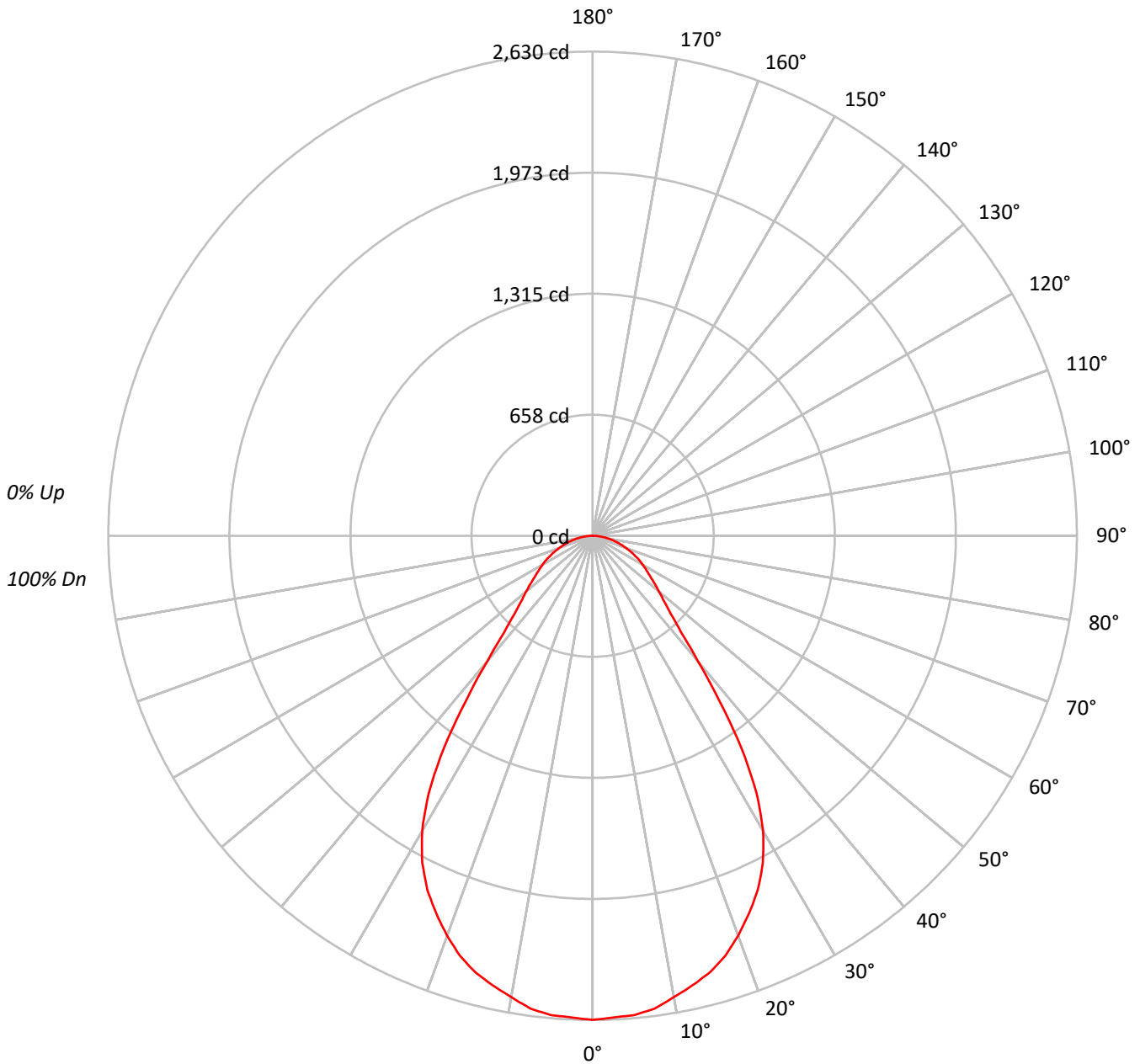
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144166
5°	143781
10°	141636
15°	139394
20°	134808
25°	128397
30°	117233
35°	94388
40°	63619
45°	46385
50°	40092
55°	36214
60°	34361
65°	32520
70°	30598
75°	28975
80°	26992
85°	25034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	6.1
10°-20°	689.7	17.1
20°-30°	969.0	24.0
30°-40°	862.6	21.4
40°-50°	482.0	12.0
50°-60°	343.4	8.5
60°-70°	249.9	6.2
70°-80°	144.7	3.6
80°-90°	44.9	1.1
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°	1906.0	47.3
0°-40°	2768.6	68.6
0°-60°	3594.1	89.1
0°-90°	4033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2630	
5°	2613	247
15°	2456	690
25°	2123	969
35°	1410	863
45°	598	482
55°	379	343
65°	251	250
75°	137	145
85°	40	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2629.8
2.5°	2618.5
5°	2612.8
7.5°	2590.0
10°	2544.4
12.5°	2501.6
15°	2456.1
17.5°	2393.3
20°	2310.8
22.5°	2219.6
25°	2122.7
27.5°	2003.0
30°	1852.0
32.5°	1658.2
35°	1410.4
37.5°	1131.2
40°	889.0
42.5°	709.5
45°	598.3
47.5°	524.3
50°	470.1
52.5°	421.7
55°	378.9
57.5°	344.8
60°	313.4
62.5°	284.9
65°	250.7
67.5°	222.3
70°	190.9
72.5°	162.4
75°	136.8
77.5°	111.1
80°	85.5
82.5°	62.7
85°	39.8
87.5°	19.9
90°	0.0



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— 0°-180°







(END OF REPORT)