

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: P582421

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582421
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-HM63040827-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999.4 lumens
Efficiency: N/A
Efficacy: 97.5 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

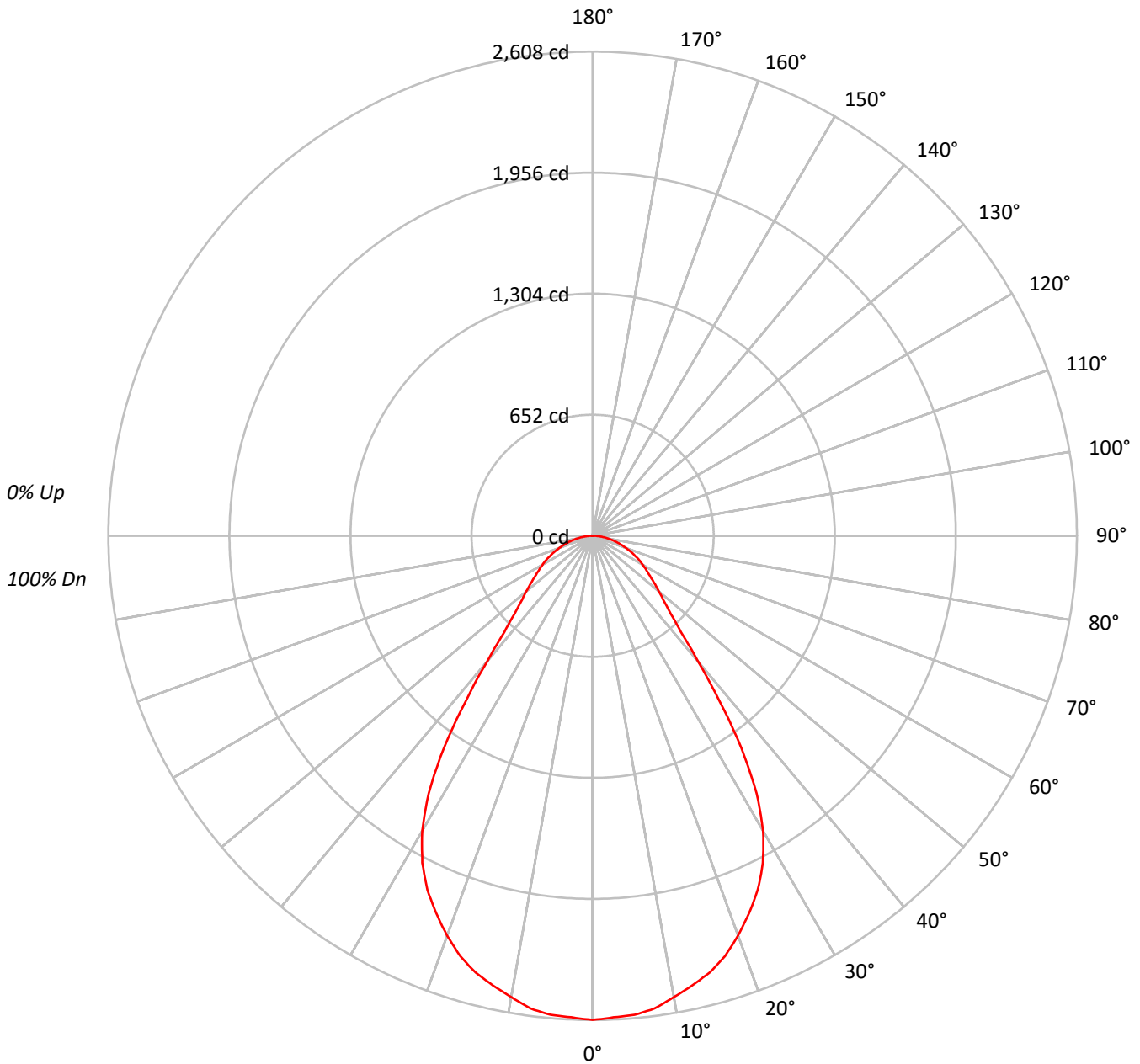
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	142955
5°	142560
10°	140439
15°	138213
20°	133665
25°	127308
30°	116239
35°	93585
40°	63082
45°	45997
50°	39751
55°	35917
60°	34076
65°	32247
70°	30342
75°	28721
80°	26771
85°	24908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	6.1
10°-20°	683.9	17.1
20°-30°	960.8	24.0
30°-40°	855.3	21.4
40°-50°	478.0	12.0
50°-60°	340.6	8.5
60°-70°	247.8	6.2
70°-80°	143.4	3.6
80°-90°	44.6	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°	1889.9	47.3
0°-40°	2745.2	68.6
0°-60°	3563.7	89.1
0°-90°	3999.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2608	
5°	2591	245
15°	2435	684
25°	2105	961
35°	1398	855
45°	593	478
55°	376	341
65°	249	248
75°	136	143
85°	40	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2607.7
2.5°	2596.3
5°	2590.6
7.5°	2568.1
10°	2522.9
12.5°	2480.5
15°	2435.3
17.5°	2373.1
20°	2291.2
22.5°	2200.8
25°	2104.7
27.5°	1986.0
30°	1836.3
32.5°	1644.3
35°	1398.4
37.5°	1121.5
40°	881.5
42.5°	703.4
45°	593.3
47.5°	519.8
50°	466.1
52.5°	418.1
55°	375.8
57.5°	341.9
60°	310.8
62.5°	282.5
65°	248.6
67.5°	220.4
70°	189.3
72.5°	161.0
75°	135.6
77.5°	110.1
80°	84.8
82.5°	62.1
85°	39.6
87.5°	19.8
90°	0.0



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— 0°-180°







(END OF REPORT)