

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: P582457

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582457
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-HM63040835-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4452.7 lumens
Efficiency: N/A
Efficacy: 108.6 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

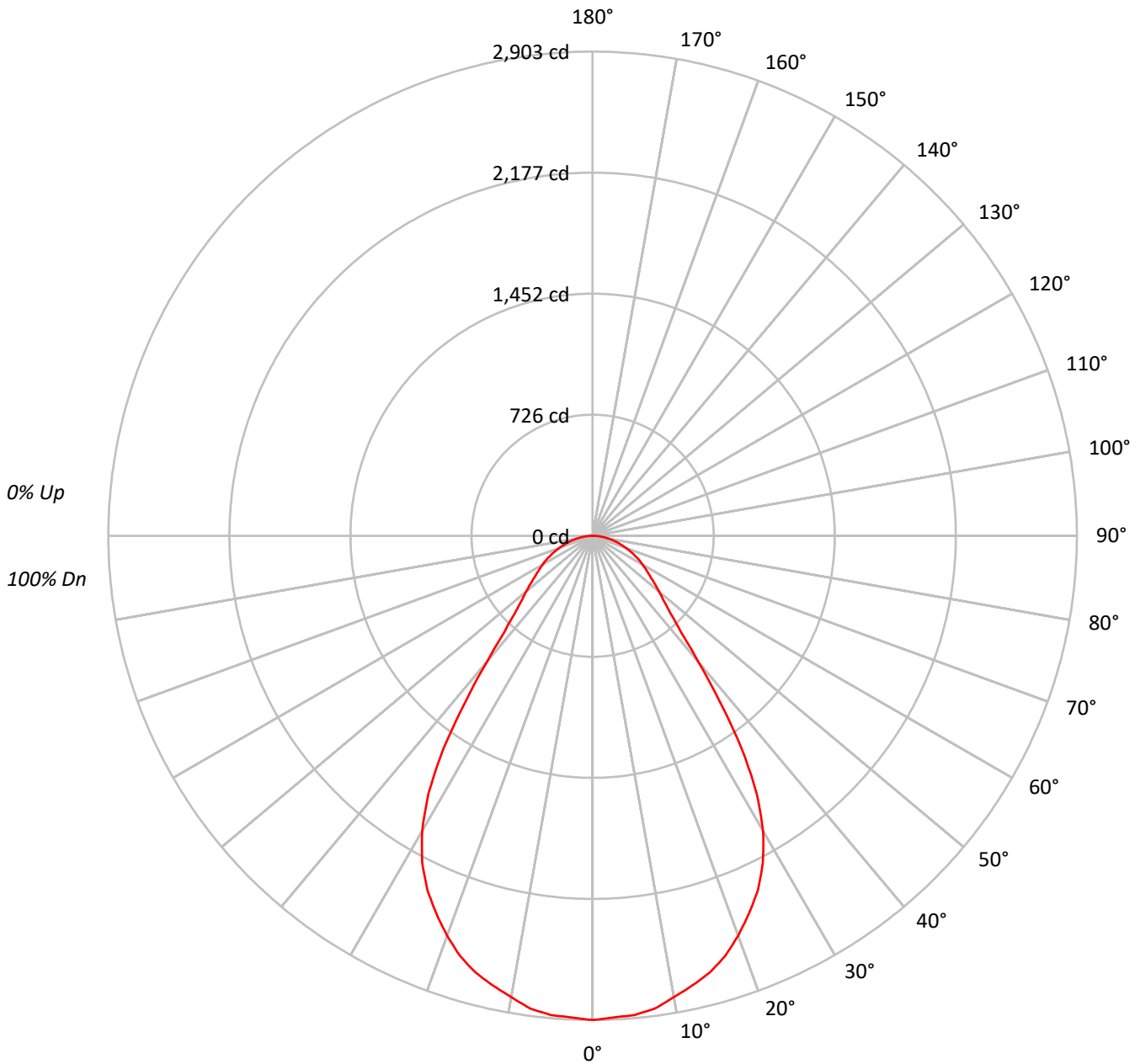
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	159143
5°	158711
10°	156349
15°	153871
20°	148810
25°	141734
30°	129412
35°	104193
40°	70224
45°	51215
50°	44263
55°	39979
60°	37936
65°	35892
70°	33788
75°	31983
80°	29770
85°	27738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	6.1
10°-20°	761.4	17.1
20°-30°	1069.7	24.0
30°-40°	952.2	21.4
40°-50°	532.2	12.0
50°-60°	379.1	8.5
60°-70°	275.8	6.2
70°-80°	159.7	3.6
80°-90°	49.6	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°	2104.0	47.3
0°-40°	3056.2	68.6
0°-60°	3967.5	89.1
0°-90°	4452.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4452.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2903	
5°	2884	273
15°	2711	761
25°	2343	1070
35°	1557	952
45°	661	532
55°	418	379
65°	277	276
75°	151	160
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2903.0
2.5°	2890.5
5°	2884.1
7.5°	2859.1
10°	2808.7
12.5°	2761.5
15°	2711.2
17.5°	2642.0
20°	2550.8
22.5°	2450.2
25°	2343.2
27.5°	2211.0
30°	2044.4
32.5°	1830.5
35°	1556.9
37.5°	1248.7
40°	981.3
42.5°	783.2
45°	660.6
47.5°	578.8
50°	519.0
52.5°	465.5
55°	418.3
57.5°	380.5
60°	346.0
62.5°	314.6
65°	276.7
67.5°	245.3
70°	210.8
72.5°	179.3
75°	151.0
77.5°	122.7
80°	94.3
82.5°	69.2
85°	44.1
87.5°	22.0
90°	0.0



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— 0°-180°







(END OF REPORT)