

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: P582474

Luminaire Tested: **HC640D010-HM63040840-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040840-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4496.6 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

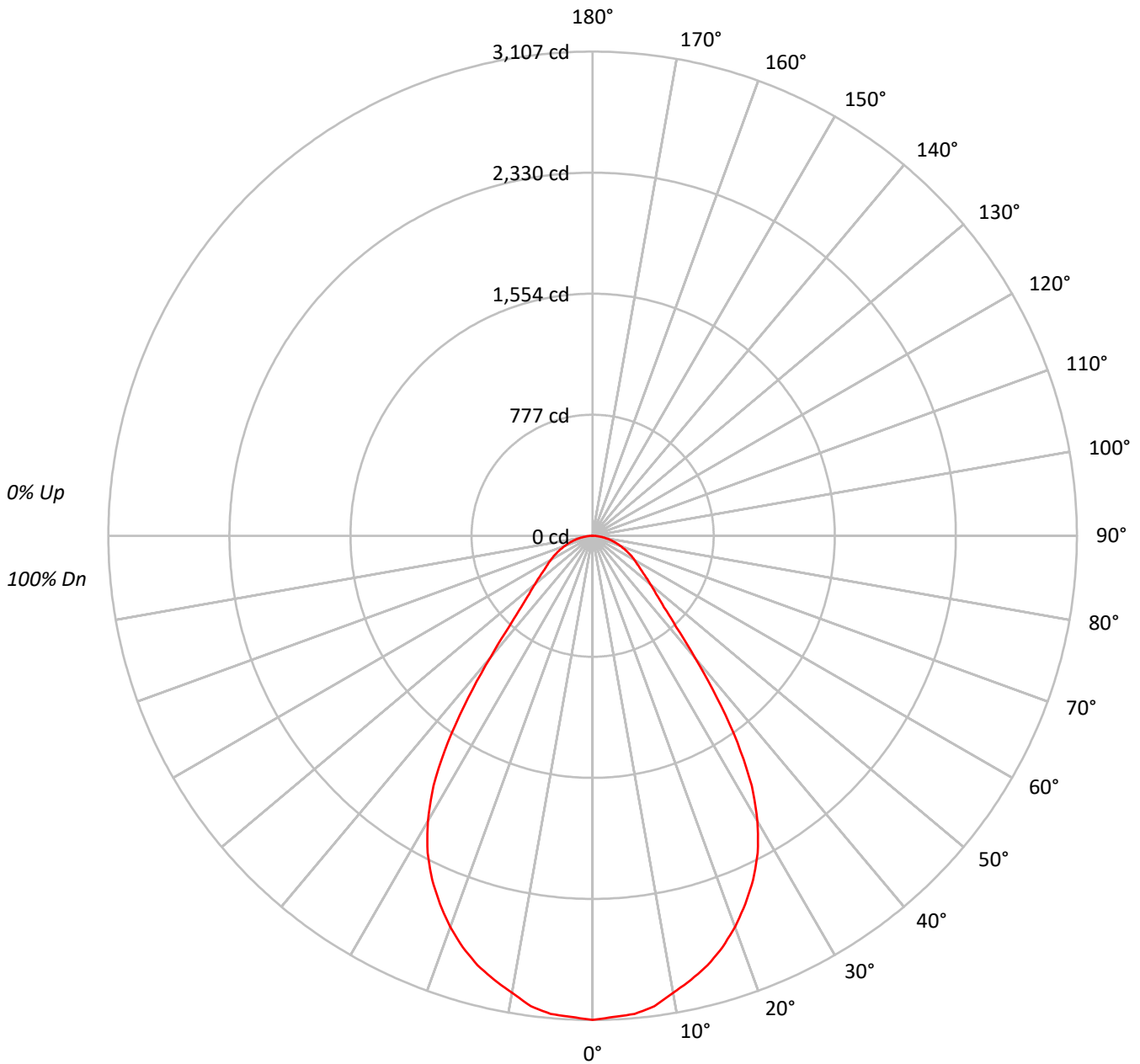
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	170315
5°	169513
10°	165767
15°	161879
20°	155799
25°	147341
30°	133900
35°	108382
40°	73087
45°	50222
50°	41150
55°	36013
60°	34054
65°	32144
70°	30197
75°	28700
80°	26077
85°	22895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	6.5
10°-20°	801.0	17.8
20°-30°	1112.8	24.7
30°-40°	990.8	22.0
40°-50°	526.0	11.7
50°-60°	343.9	7.6
60°-70°	246.5	5.5
70°-80°	143.0	3.2
80°-90°	41.8	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°	2204.6	49.0
0°-40°	3195.5	71.1
0°-60°	4065.4	90.4
0°-90°	4496.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4496.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3107	
5°	3080	291
15°	2852	801
25°	2436	1113
35°	1620	991
45°	648	526
55°	377	344
65°	248	246
75°	136	143
85°	36	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3106.8
2.5°	3090.3
5°	3080.4
7.5°	3044.0
10°	2977.9
12.5°	2918.4
15°	2852.3
17.5°	2769.6
20°	2670.6
22.5°	2558.2
25°	2435.9
27.5°	2293.7
30°	2115.3
32.5°	1900.4
35°	1619.5
37.5°	1308.8
40°	1021.3
42.5°	793.2
45°	647.8
47.5°	552.0
50°	482.5
52.5°	426.3
55°	376.8
57.5°	340.4
60°	310.6
62.5°	280.9
65°	247.8
67.5°	218.2
70°	188.4
72.5°	162.0
75°	135.5
77.5°	109.1
80°	82.6
82.5°	59.5
85°	36.4
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)