

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: P582471

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582471
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-HM63040840-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4562.7 lumens
Efficiency: N/A
Efficacy: 111.3 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

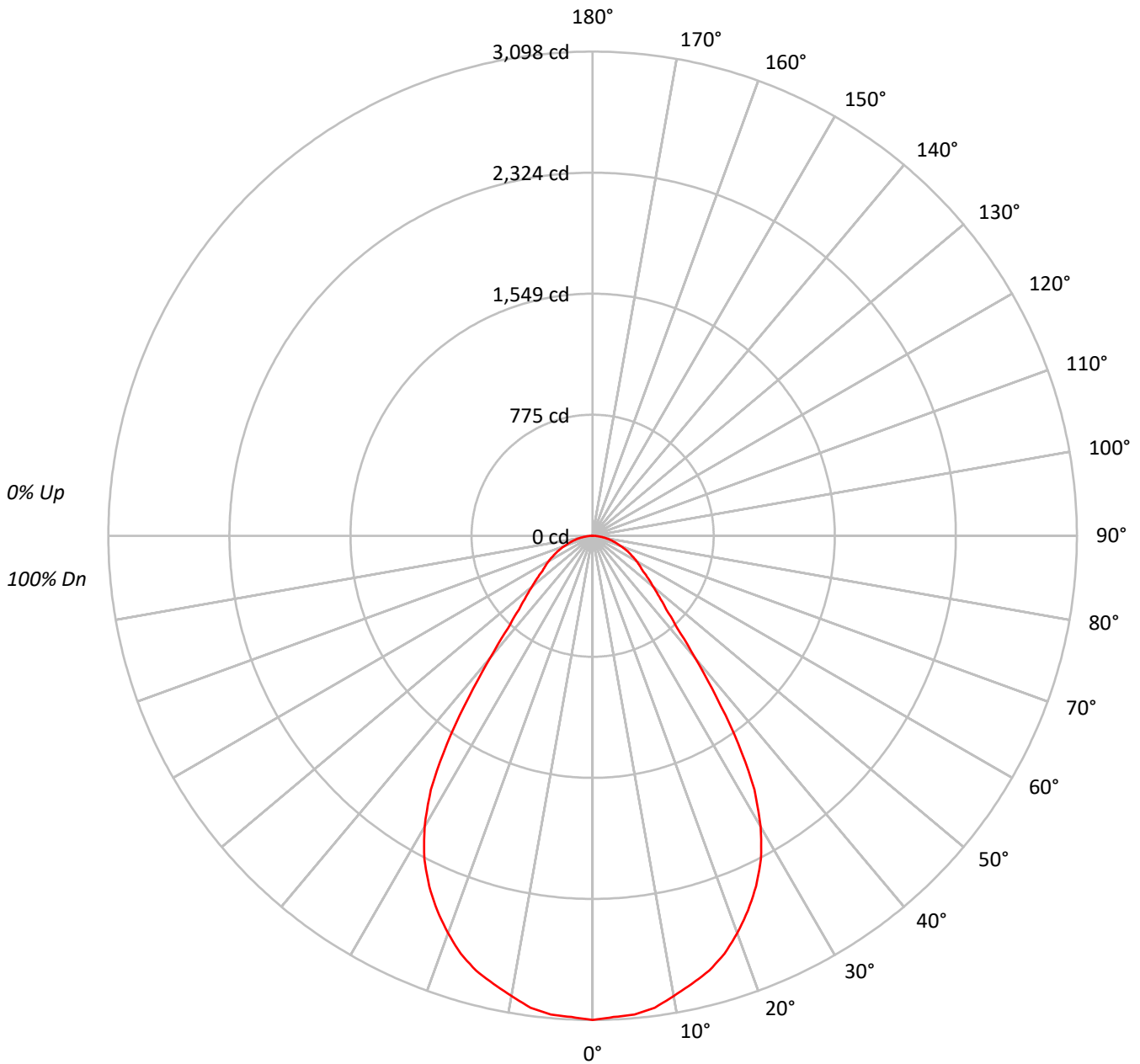
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	169849
5°	169227
10°	166408
15°	163469
20°	157823
25°	149646
30°	136122
35°	108757
40°	72565
45°	51734
50°	43103
55°	37571
60°	35491
65°	33415
70°	30694
75°	28700
80°	26077
85°	22832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	6.4
10°-20°	808.7	17.7
20°-30°	1130.1	24.8
30°-40°	995.5	21.8
40°-50°	537.9	11.8
50°-60°	359.7	7.9
60°-70°	254.9	5.6
70°-80°	143.3	3.1
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°	2229.7	48.9
0°-40°	3225.3	70.7
0°-60°	4122.8	90.4
0°-90°	4562.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4562.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3098	
5°	3075	291
15°	2880	809
25°	2474	1130
35°	1625	996
45°	667	538
55°	393	360
65°	258	255
75°	136	143
85°	36	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3098.3
2.5°	3081.8
5°	3075.2
7.5°	3045.6
10°	2989.4
12.5°	2936.5
15°	2880.3
17.5°	2804.3
20°	2705.3
22.5°	2596.3
25°	2474.0
27.5°	2332.0
30°	2150.4
32.5°	1925.7
35°	1625.1
37.5°	1298.2
40°	1014.0
42.5°	799.3
45°	667.3
47.5°	578.1
50°	505.4
52.5°	446.0
55°	393.1
57.5°	356.8
60°	323.7
62.5°	290.7
65°	257.6
67.5°	224.6
70°	191.5
72.5°	161.8
75°	135.5
77.5°	108.9
80°	82.6
82.5°	59.5
85°	36.3
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)