

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: P582452

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040835-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4455.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

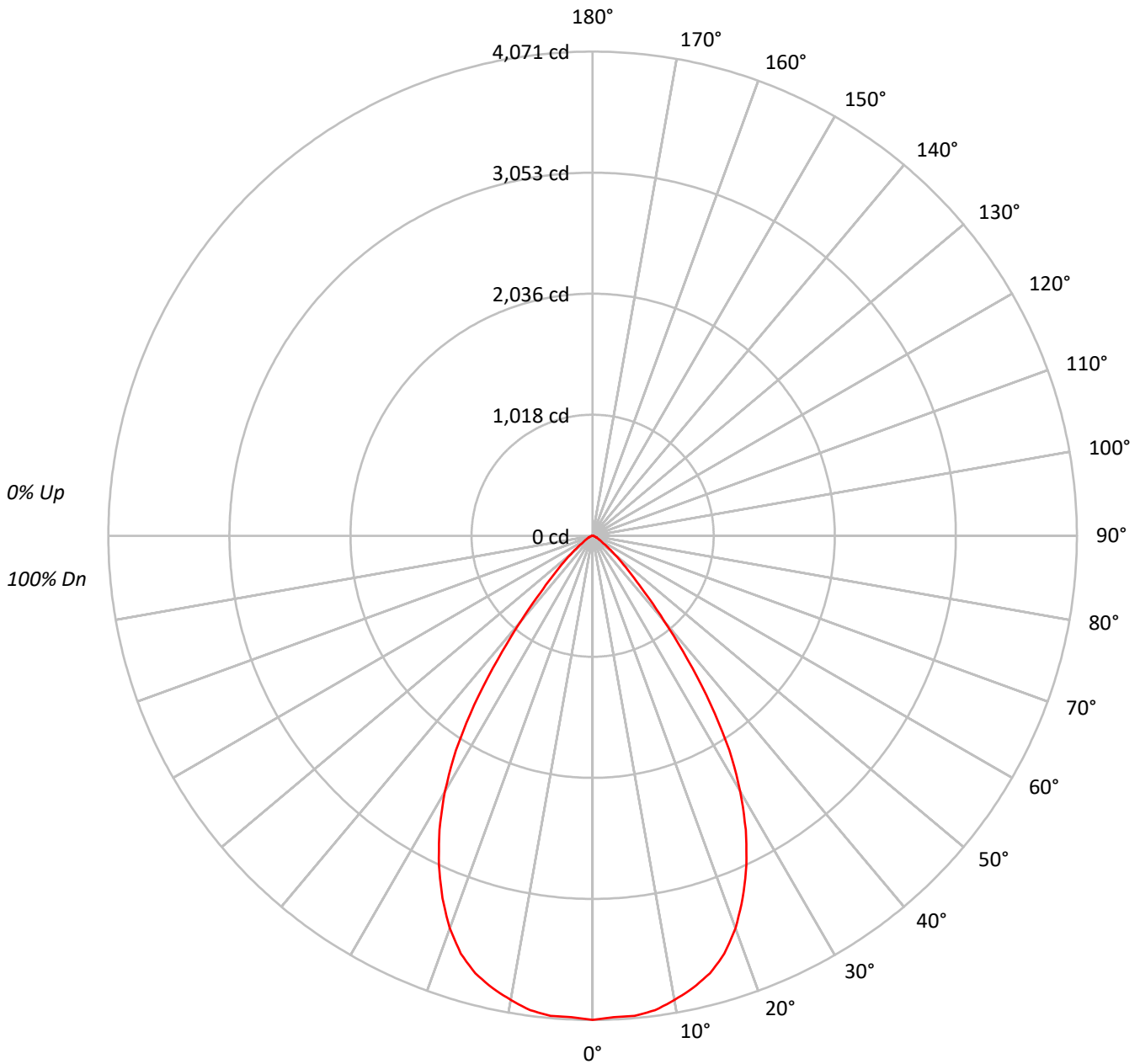
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	223156
5°	222969
10°	220643
15°	216216
20°	204814
25°	184958
30°	157119
35°	116004
40°	67083
45°	35608
50°	20127
55°	10523
60°	6896
65°	4890
70°	3526
75°	2648
80°	1989
85°	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	8.6
10°-20°	1065.5	23.9
20°-30°	1390.7	31.2
30°-40°	1062.8	23.9
40°-50°	384.8	8.6
50°-60°	111.7	2.5
60°-70°	40.0	0.9
70°-80°	13.7	0.3
80°-90°	2.6	0.1
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°	2840.2	63.7
0°-40°	3903.0	87.6
0°-60°	4399.5	98.7
0°-90°	4455.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4071	
5°	4052	384
15°	3810	1066
25°	3058	1391
35°	1733	1063
45°	459	385
55°	110	112
65°	38	40
75°	12	14
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4070.7
2.5°	4051.8
5°	4051.8
7.5°	4023.6
10°	3963.7
12.5°	3894.6
15°	3809.7
17.5°	3683.8
20°	3510.8
22.5°	3296.8
25°	3057.8
27.5°	2787.2
30°	2482.1
32.5°	2139.2
35°	1733.4
37.5°	1308.7
40°	937.4
42.5°	648.0
45°	459.3
47.5°	330.3
50°	236.0
52.5°	166.7
55°	110.1
57.5°	78.6
60°	62.9
62.5°	50.4
65°	37.7
67.5°	31.5
70°	22.0
72.5°	15.7
75°	12.5
77.5°	9.5
80°	6.3
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)