

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: P581020

Luminaire Tested: **HC405D010-HM40525835-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525835-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 647.2 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

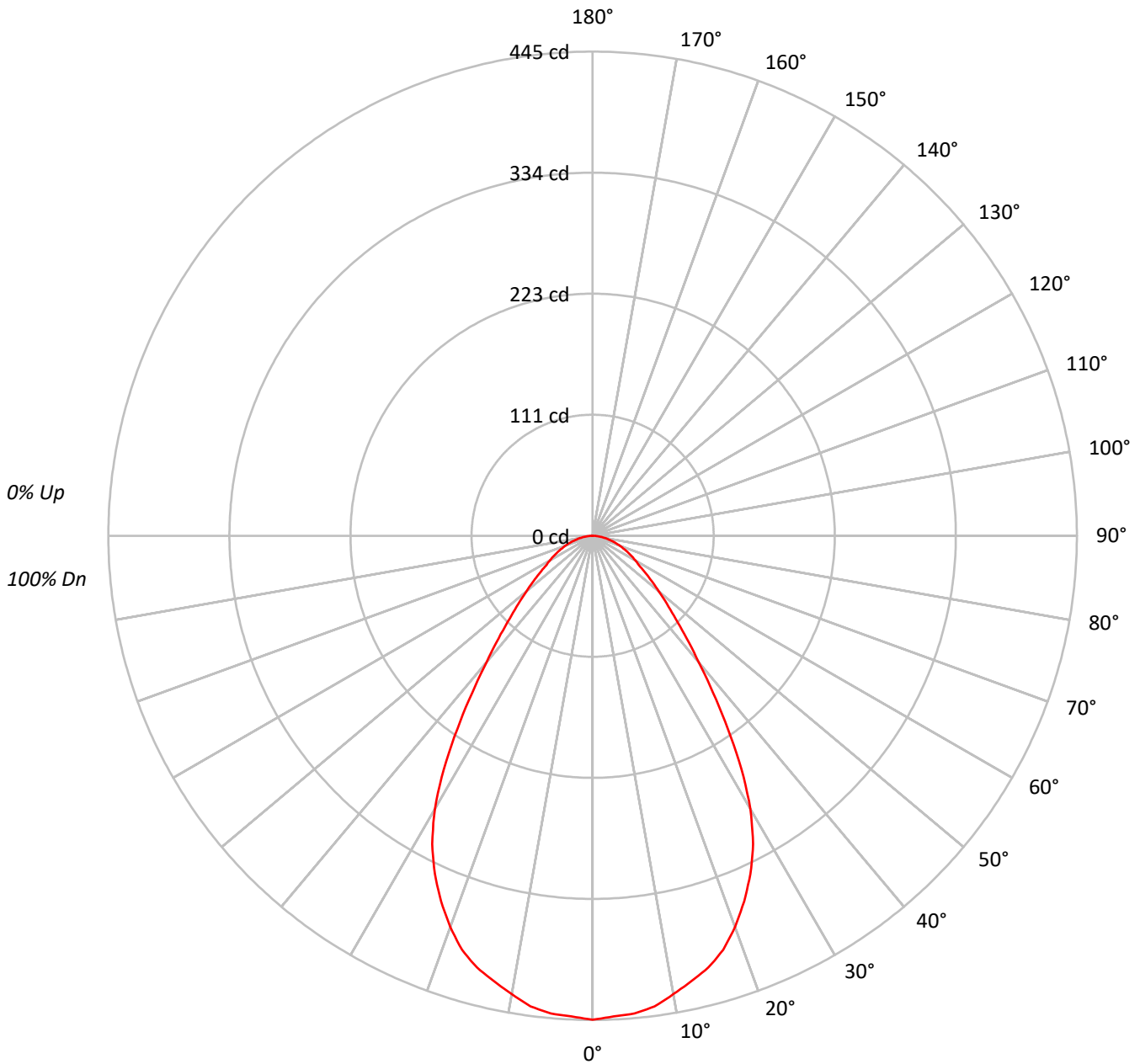
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	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	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54864
5°	54578
10°	53581
15°	52458
20°	50208
25°	46681
30°	41318
35°	32615
40°	24394
45°	18769
50°	15217
55°	12645
60°	11175
65°	10332
70°	9521
75°	8769
80°	7956
85°	6369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	6.4
10°-20°	115.2	17.8
20°-30°	156.4	24.2
30°-40°	135.5	20.9
40°-50°	85.1	13.1
50°-60°	53.5	8.3
60°-70°	35.2	5.4
70°-80°	19.4	3.0
80°-90°	5.3	0.8
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°	313.3	48.4
0°-40°	448.8	69.3
0°-60°	587.3	90.8
0°-90°	647.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	445	
5°	441	42
15°	411	115
25°	343	156
35°	217	135
45°	108	85
55°	59	54
65°	35	35
75°	18	19
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	444.8
2.5°	442.2
5°	440.8
7.5°	436.3
10°	427.8
12.5°	419.3
15°	410.8
17.5°	399.1
20°	382.5
22.5°	363.7
25°	343.0
27.5°	319.3
30°	290.1
32.5°	254.7
35°	216.6
37.5°	181.6
40°	151.5
42.5°	127.8
45°	107.6
47.5°	92.4
50°	79.3
52.5°	68.2
55°	58.8
57.5°	50.6
60°	45.3
62.5°	40.4
65°	35.4
67.5°	30.5
70°	26.4
72.5°	22.0
75°	18.4
77.5°	14.3
80°	11.2
82.5°	7.6
85°	4.5
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)