

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: P581056

Luminaire Tested: **HC405D010-HM40525927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581056
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-HM40525927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 493.2 lumens
Efficiency: N/A
Efficacy: 82.2 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

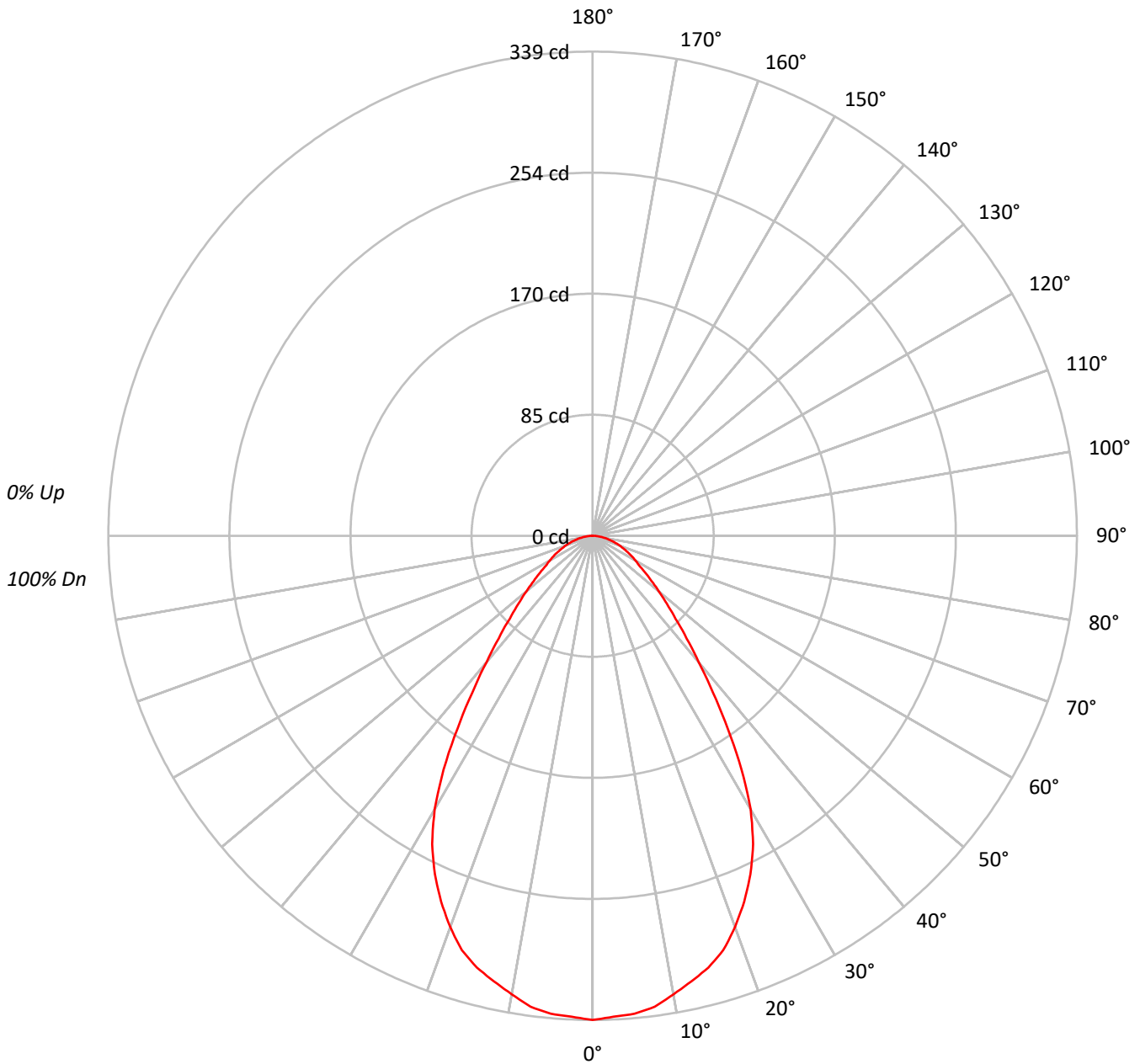
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	41814
5°	41602
10°	40831
15°	39969
20°	38263
25°	35576
30°	31491
35°	24845
40°	18597
45°	14321
50°	11609
55°	9613
60°	8511
65°	7880
70°	7285
75°	6672
80°	6038
85°	4812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	6.4
10°-20°	87.8	17.8
20°-30°	119.2	24.2
30°-40°	103.2	20.9
40°-50°	64.8	13.1
50°-60°	40.8	8.3
60°-70°	26.8	5.4
70°-80°	14.8	3.0
80°-90°	4.0	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°	238.7	48.4
0°-40°	342.0	69.3
0°-60°	447.6	90.7
0°-90°	493.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	339	
5°	336	32
15°	313	88
25°	261	119
35°	165	103
45°	82	65
55°	45	41
65°	27	27
75°	14	15
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	339.0
2.5°	337.0
5°	336.0
7.5°	332.6
10°	326.0
12.5°	319.5
15°	313.0
17.5°	304.2
20°	291.5
22.5°	277.2
25°	261.4
27.5°	243.3
30°	221.1
32.5°	194.1
35°	165.0
37.5°	138.4
40°	115.5
42.5°	97.4
45°	82.1
47.5°	70.4
50°	60.5
52.5°	52.0
55°	44.7
57.5°	38.6
60°	34.5
62.5°	30.8
65°	27.0
67.5°	23.3
70°	20.2
72.5°	16.8
75°	14.0
77.5°	10.9
80°	8.5
82.5°	5.8
85°	3.4
87.5°	1.4
90°	0.0



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— 0°-180°







(END OF REPORT)