

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: P581004

Luminaire Tested: **HC405D010-HM40525830-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525830-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 611.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

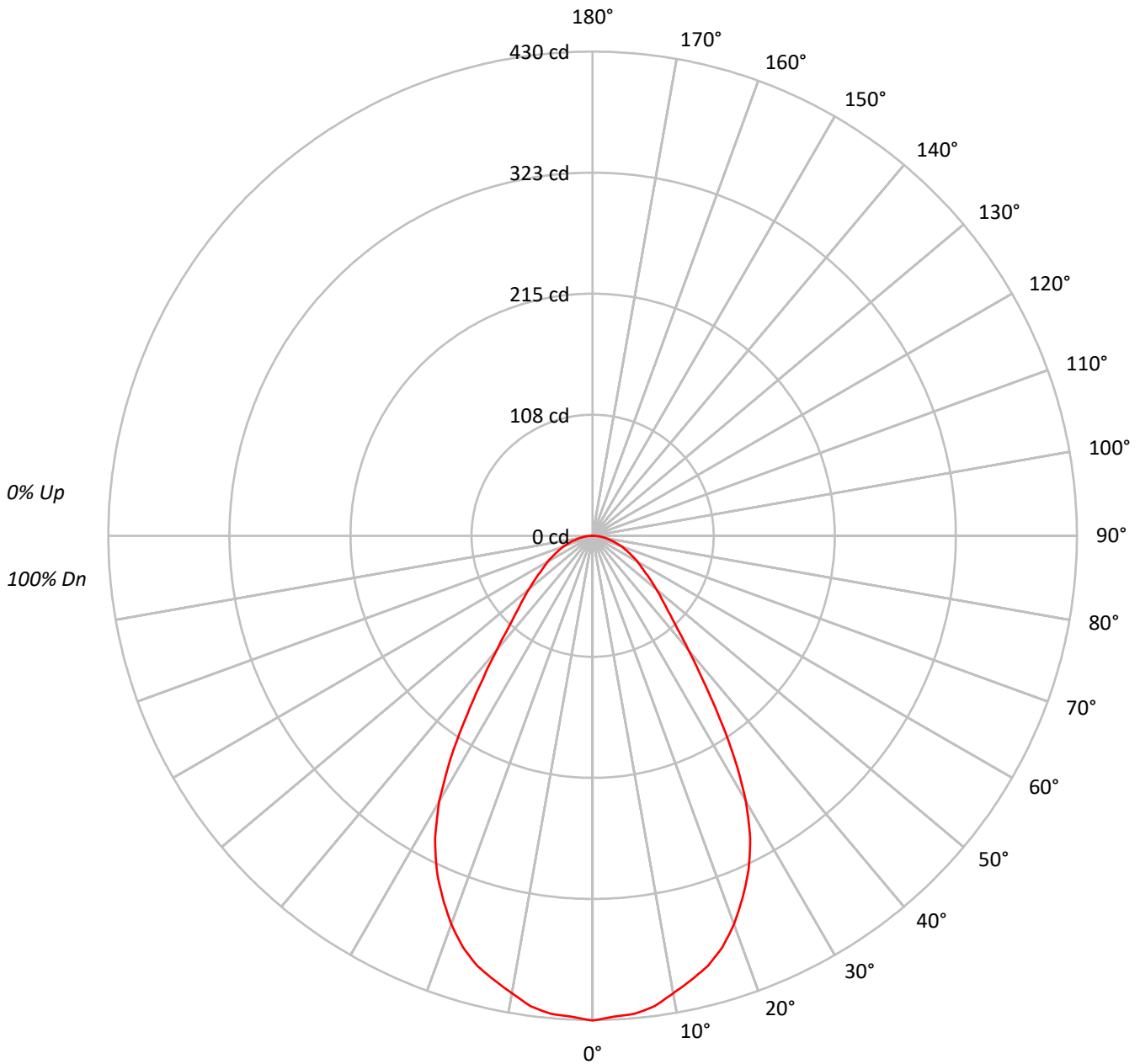
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53100
5°	52771
10°	51665
15°	50504
20°	48186
25°	44599
30°	38783
35°	29287
40°	21238
45°	16589
50°	14181
55°	12279
60°	11323
65°	10332
70°	9665
75°	8864
80°	8311
85°	8067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	6.6
10°-20°	110.8	18.1
20°-30°	149.0	24.4
30°-40°	122.5	20.0
40°-50°	75.2	12.3
50°-60°	52.1	8.5
60°-70°	35.5	5.8
70°-80°	19.8	3.2
80°-90°	6.3	1.0
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°	300.1	49.1
0°-40°	422.5	69.1
0°-60°	549.9	89.9
0°-90°	611.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	430	
5°	426	40
15°	396	111
25°	328	149
35°	194	122
45°	95	75
55°	57	52
65°	35	35
75°	19	20
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	430.5
2.5°	427.6
5°	426.2
7.5°	421.4
10°	412.5
12.5°	404.2
15°	395.5
17.5°	383.1
20°	367.1
22.5°	348.0
25°	327.7
27.5°	303.0
30°	272.3
32.5°	234.7
35°	194.5
37.5°	159.9
40°	131.9
42.5°	110.2
45°	95.1
47.5°	83.4
50°	73.9
52.5°	65.3
55°	57.1
57.5°	51.0
60°	45.9
62.5°	40.6
65°	35.4
67.5°	31.1
70°	26.8
72.5°	22.5
75°	18.6
77.5°	14.6
80°	11.7
82.5°	8.6
85°	5.7
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)