

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: P581076

Luminaire Tested: **HC405D010-HM40525930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581076
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-HM40525930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 537.3 lumens
Efficiency: N/A
Efficacy: 89.5 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

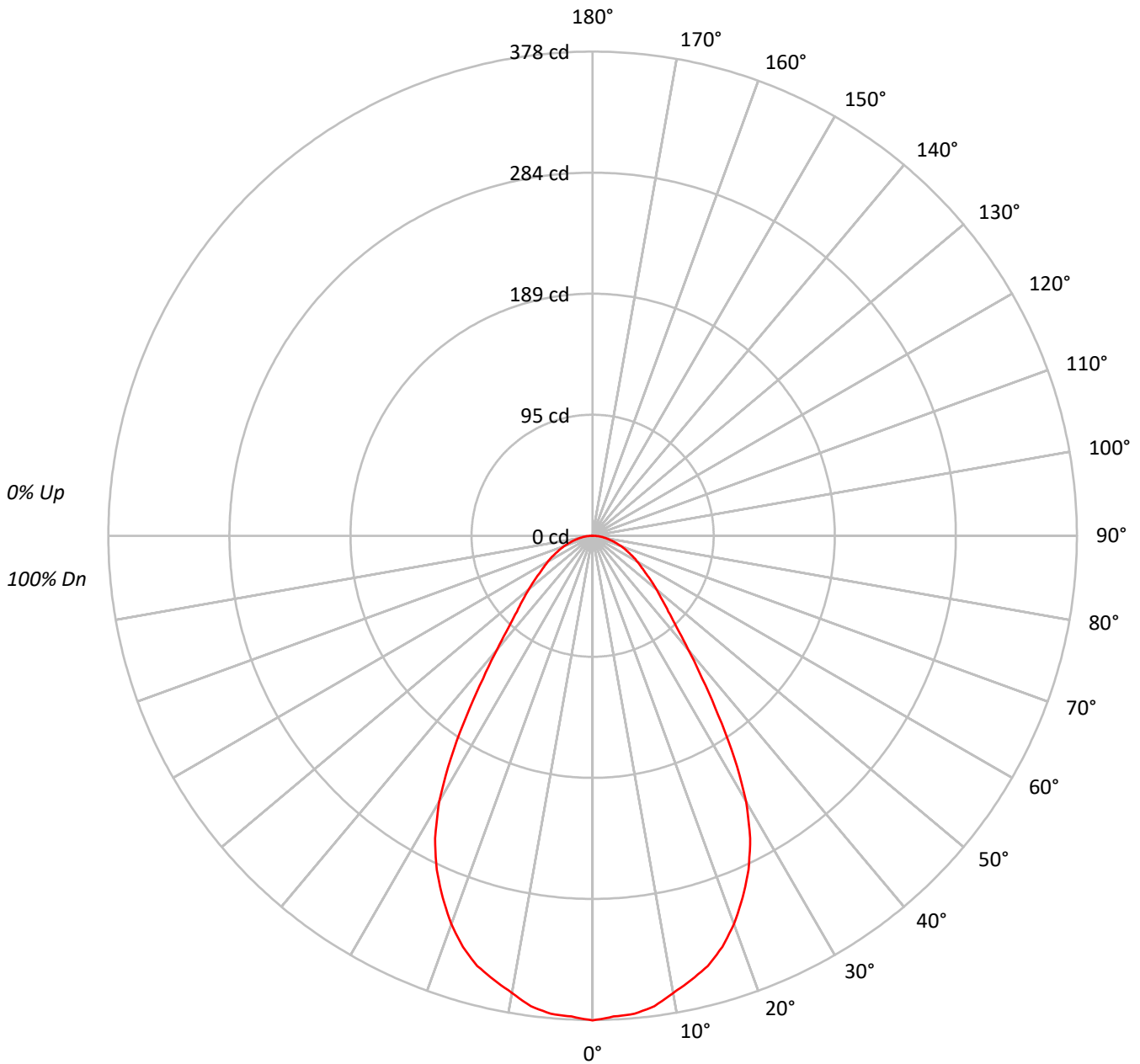
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	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°	46674
5°	46382
10°	45390
15°	44400
20°	42345
25°	39182
30°	34097
35°	25734
40°	18662
45°	14565
50°	12454
55°	10795
60°	9942
65°	9077
70°	8511
75°	7768
80°	7245
85°	7076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	6.6
10°-20°	97.4	18.1
20°-30°	130.9	24.4
30°-40°	107.6	20.0
40°-50°	66.1	12.3
50°-60°	45.7	8.5
60°-70°	31.2	5.8
70°-80°	17.4	3.2
80°-90°	5.5	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°	263.7	49.1
0°-40°	371.3	69.1
0°-60°	483.2	89.9
0°-90°	537.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	378	
5°	375	35
15°	348	97
25°	288	131
35°	171	108
45°	84	66
55°	50	46
65°	31	31
75°	16	17
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	378.4
2.5°	375.7
5°	374.6
7.5°	370.4
10°	362.4
12.5°	355.3
15°	347.7
17.5°	336.6
20°	322.6
22.5°	305.8
25°	287.9
27.5°	266.3
30°	239.4
32.5°	206.2
35°	170.9
37.5°	140.5
40°	115.9
42.5°	96.9
45°	83.5
47.5°	73.3
50°	64.9
52.5°	57.3
55°	50.2
57.5°	44.8
60°	40.3
62.5°	35.8
65°	31.1
67.5°	27.4
70°	23.6
72.5°	19.7
75°	16.3
77.5°	12.9
80°	10.2
82.5°	7.6
85°	5.0
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)