

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: P581038

Luminaire Tested: **HC405D010-HM40525840-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581038
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-HM40525840-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 665.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

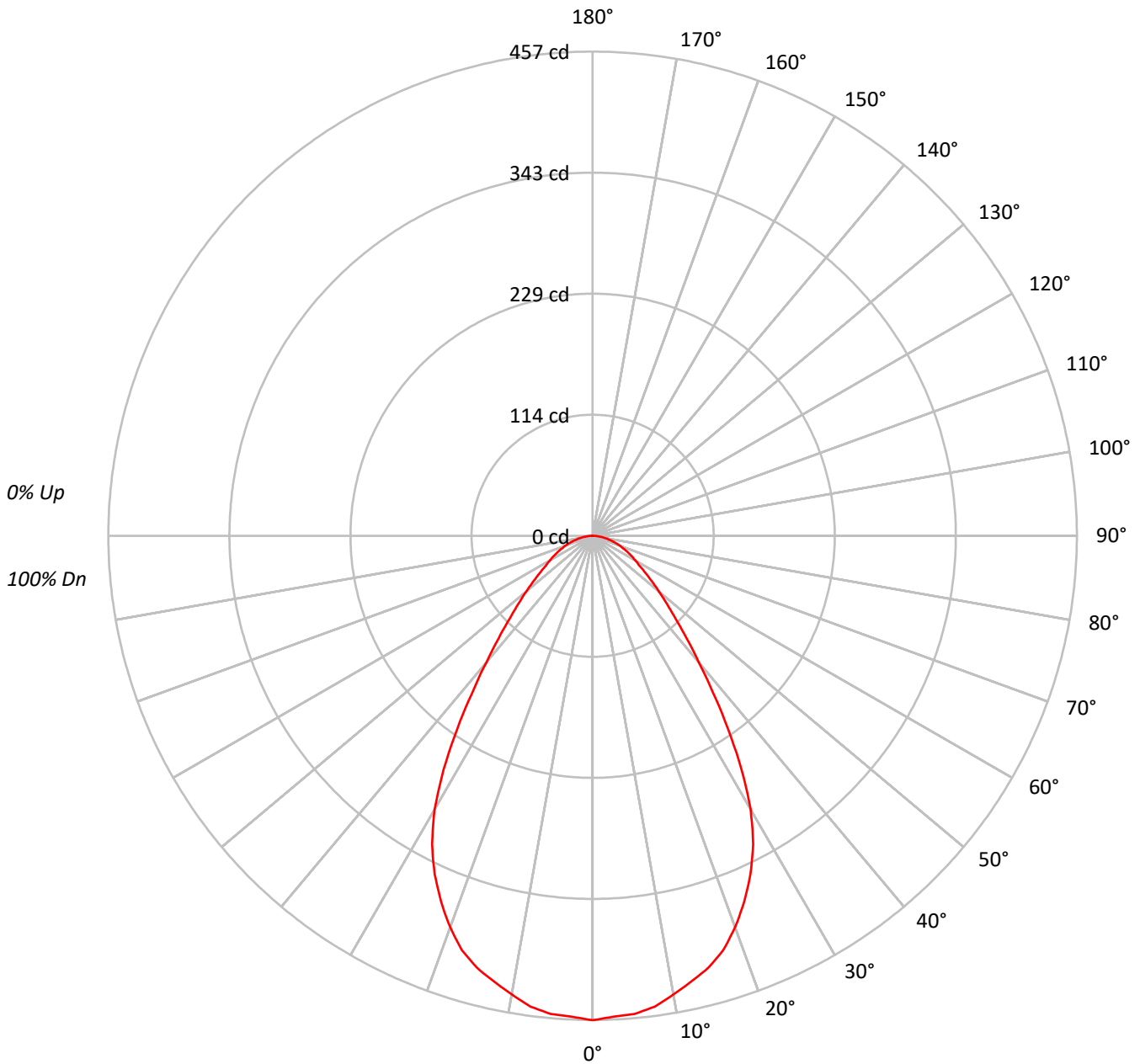
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56394
5°	56089
10°	55059
15°	53901
20°	51599
25°	47974
30°	42472
35°	33518
40°	25070
45°	19275
50°	15658
55°	12989
60°	11471
65°	10624
70°	9809
75°	8960
80°	8240
85°	6652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	6.4
10°-20°	118.4	17.8
20°-30°	160.7	24.2
30°-40°	139.2	20.9
40°-50°	87.4	13.1
50°-60°	55.0	8.3
60°-70°	36.1	5.4
70°-80°	19.9	3.0
80°-90°	5.5	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°	321.9	48.4
0°-40°	461.2	69.3
0°-60°	603.5	90.8
0°-90°	665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	457	
5°	453	43
15°	422	118
25°	352	161
35°	223	139
45°	110	87
55°	60	55
65°	36	36
75°	19	20
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	457.2
2.5°	454.3
5°	453.0
7.5°	448.3
10°	439.6
12.5°	430.8
15°	422.1
17.5°	410.1
20°	393.1
22.5°	373.8
25°	352.5
27.5°	328.1
30°	298.2
32.5°	261.7
35°	222.6
37.5°	186.6
40°	155.7
42.5°	131.3
45°	110.5
47.5°	94.9
50°	81.6
52.5°	70.0
55°	60.4
57.5°	52.1
60°	46.5
62.5°	41.4
65°	36.4
67.5°	31.3
70°	27.2
72.5°	22.6
75°	18.8
77.5°	14.8
80°	11.6
82.5°	7.8
85°	4.7
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)