

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: P579749

Luminaire Tested: **HC410D010-HM40525840-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579749
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: HC410D010-HM40525840-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1066.9 lumens
Efficiency: N/A
Efficacy: 107.8 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

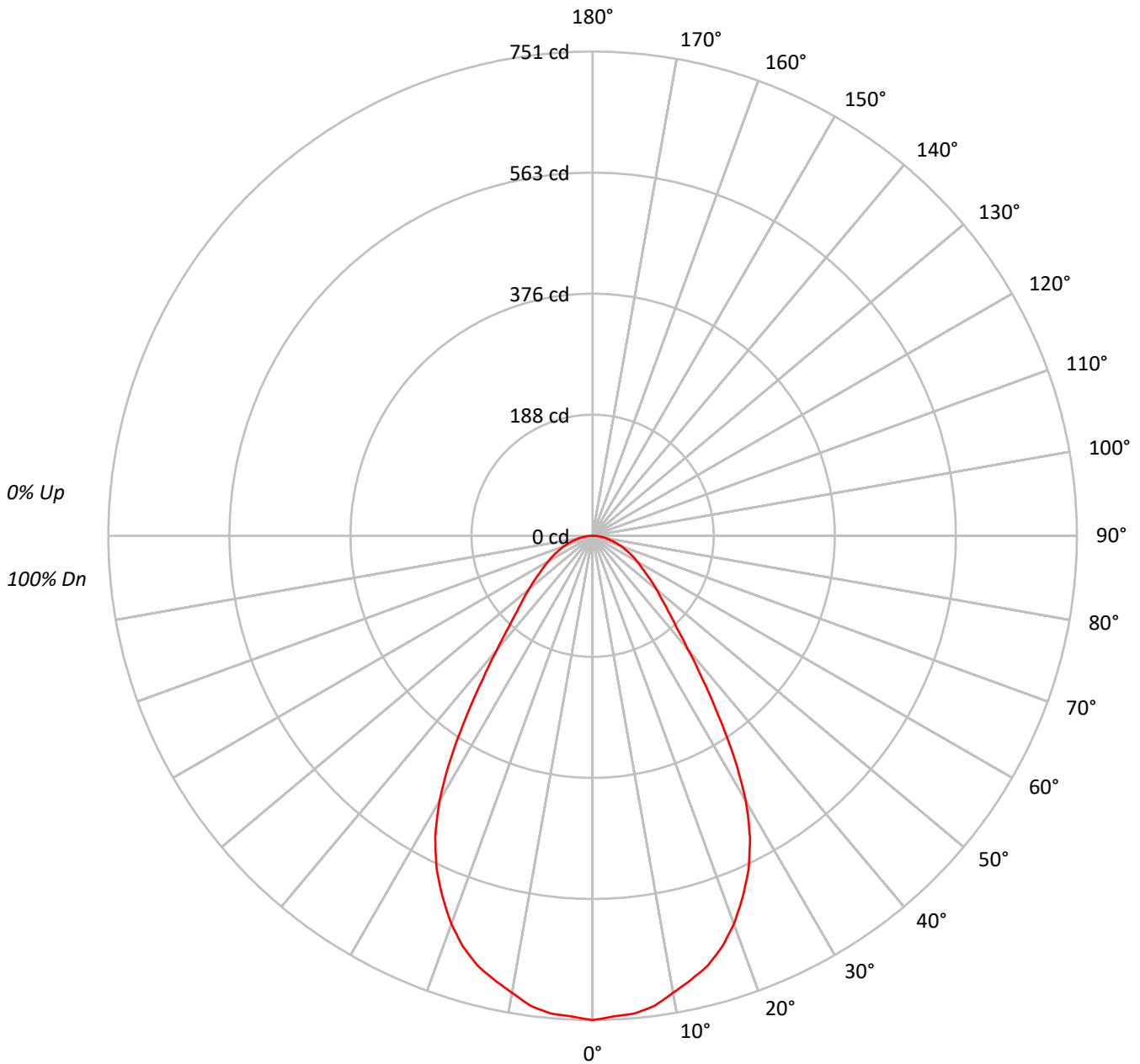
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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°	92670
5°	92095
10°	90141
15°	88136
20°	84073
25°	77807
30°	67681
35°	51121
40°	37050
45°	28939
50°	24735
55°	21419
60°	19735
65°	18066
70°	16878
75°	15441
80°	14491
85°	13869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	6.6
10°-20°	193.3	18.1
20°-30°	260.0	24.4
30°-40°	213.8	20.0
40°-50°	131.3	12.3
50°-60°	90.9	8.5
60°-70°	62.0	5.8
70°-80°	34.5	3.2
80°-90°	11.0	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°	523.6	49.1
0°-40°	737.4	69.1
0°-60°	959.5	89.9
0°-90°	1066.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	751	
5°	744	70
15°	690	193
25°	572	260
35°	340	214
45°	166	131
55°	100	91
65°	62	62
75°	32	35
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	751.3
2.5°	746.1
5°	743.8
7.5°	735.5
10°	719.7
12.5°	705.3
15°	690.2
17.5°	668.3
20°	640.5
22.5°	607.2
25°	571.7
27.5°	528.8
30°	475.2
32.5°	409.6
35°	339.5
37.5°	279.2
40°	230.1
42.5°	192.3
45°	165.9
47.5°	145.6
50°	128.9
52.5°	113.9
55°	99.6
57.5°	89.0
60°	80.0
62.5°	70.9
65°	61.9
67.5°	54.3
70°	46.8
72.5°	39.3
75°	32.4
77.5°	25.6
80°	20.4
82.5°	15.1
85°	9.8
87.5°	5.2
90°	0.0



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— 0°-180°







(END OF REPORT)