

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: P579767

Luminaire Tested: **HC410D010-HM40525927-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579767
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-HM40525927-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 791.2 lumens
Efficiency: N/A
Efficacy: 79.9 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

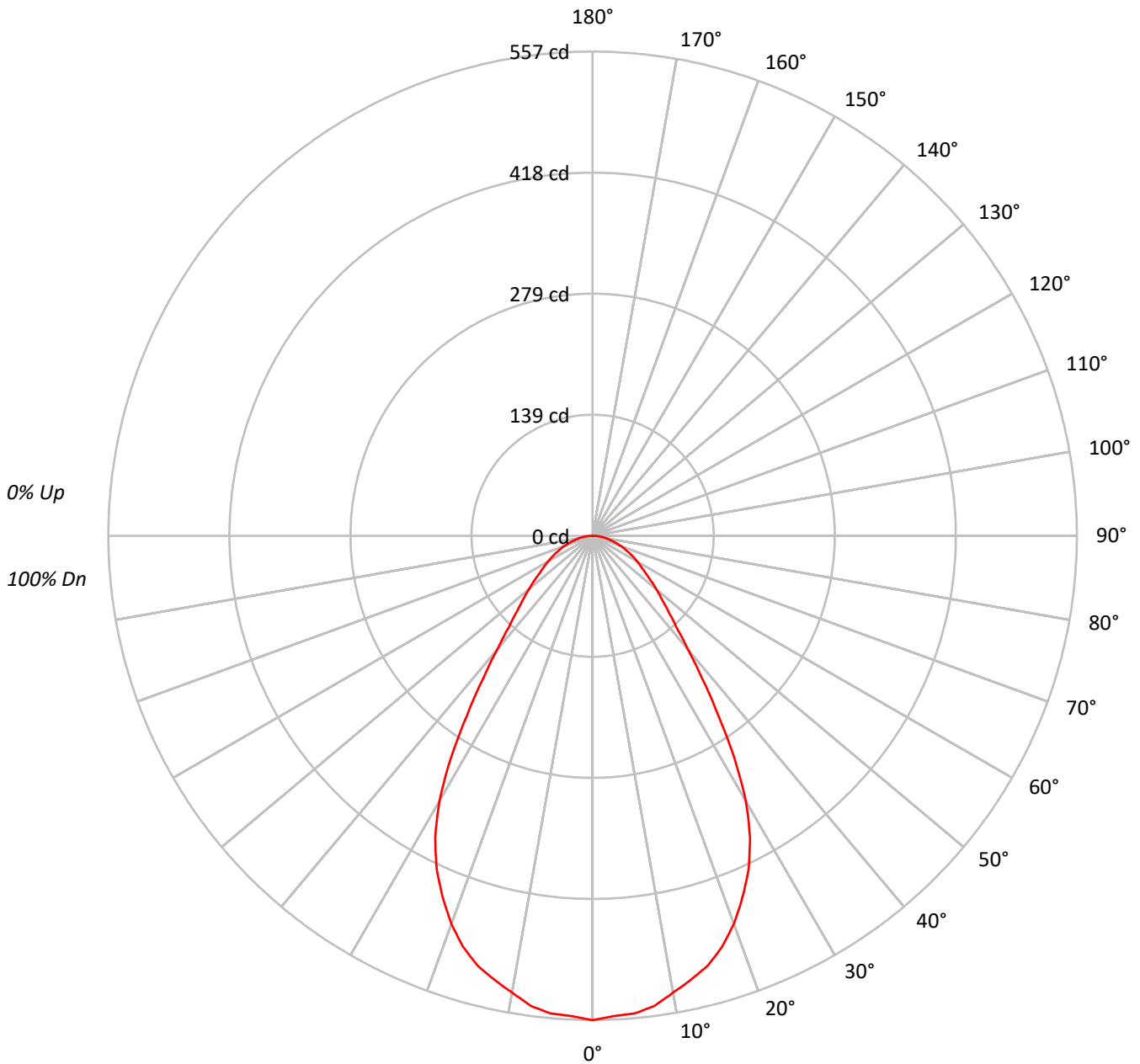
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	68728
5°	68297
10°	66833
15°	65368
20°	62336
25°	57705
30°	50191
35°	37900
40°	27469
45°	21456
50°	18364
55°	15892
60°	14629
65°	13396
70°	12514
75°	11438
80°	10726
85°	10331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	6.6
10°-20°	143.4	18.1
20°-30°	192.8	24.4
30°-40°	158.5	20.0
40°-50°	97.3	12.3
50°-60°	67.4	8.5
60°-70°	46.0	5.8
70°-80°	25.6	3.2
80°-90°	8.1	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°	388.3	49.1
0°-40°	546.8	69.1
0°-60°	711.5	89.9
0°-90°	791.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	557	
5°	552	52
15°	512	143
25°	424	193
35°	252	159
45°	123	97
55°	74	67
65°	46	46
75°	24	26
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	557.2
2.5°	553.2
5°	551.6
7.5°	545.4
10°	533.6
12.5°	523.0
15°	511.9
17.5°	495.6
20°	474.9
22.5°	450.3
25°	424.0
27.5°	392.2
30°	352.4
32.5°	303.7
35°	251.7
37.5°	207.0
40°	170.6
42.5°	142.6
45°	123.0
47.5°	108.0
50°	95.7
52.5°	84.4
55°	73.9
57.5°	66.0
60°	59.3
62.5°	52.6
65°	45.9
67.5°	40.3
70°	34.7
72.5°	29.1
75°	24.0
77.5°	19.0
80°	15.1
82.5°	11.2
85°	7.3
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)