

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: P581669

Luminaire Tested: **HC610D010-HM60525935-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525935-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1136.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

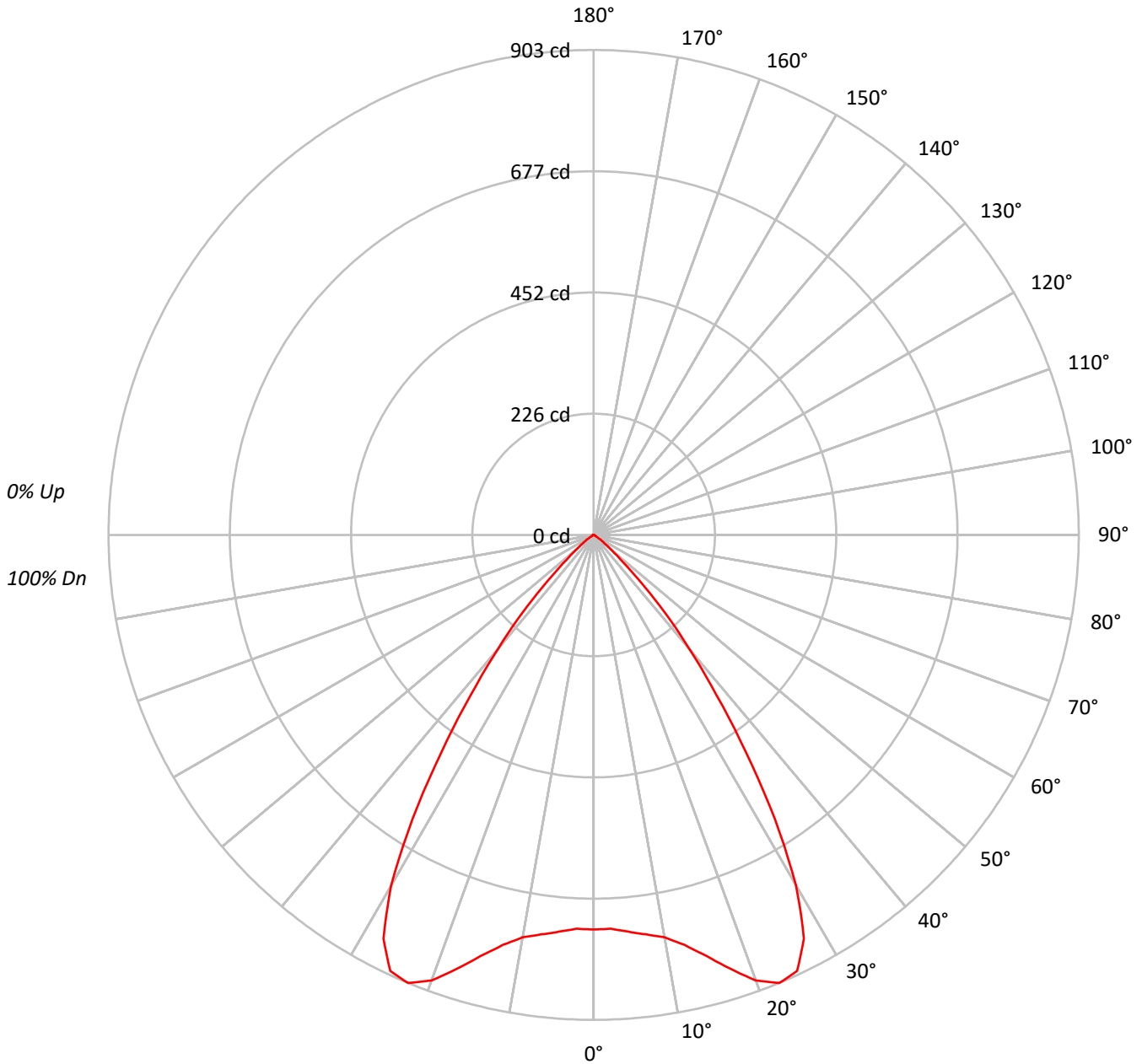
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40276
5°	40815
10°	42345
15°	46050
20°	51489
25°	54197
30°	47710
35°	33093
40°	19758
45°	9389
50°	3539
55°	1481
60°	460
65°	363
70°	224
75°	148
80°	221
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	6.3
10°-20°	233.0	20.5
20°-30°	399.3	35.1
30°-40°	310.1	27.3
40°-50°	102.5	9.0
50°-60°	15.7	1.4
60°-70°	2.8	0.2
70°-80°	1.0	0.1
80°-90°	0.3	0.0
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°	703.6	61.9
0°-40°	1013.7	89.2
0°-60°	1131.9	99.6
0°-90°	1136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	735	
5°	742	71
15°	811	233
25°	896	399
35°	494	310
45°	121	103
55°	16	16
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	734.7
2.5°	734.0
5°	741.7
7.5°	750.2
10°	760.7
12.5°	781.9
15°	811.4
17.5°	847.3
20°	882.6
22.5°	903.0
25°	896.0
27.5°	847.3
30°	753.7
32.5°	627.6
35°	494.5
37.5°	375.5
40°	276.1
42.5°	195.2
45°	121.1
47.5°	67.6
50°	41.5
52.5°	25.4
55°	15.5
57.5°	7.7
60°	4.2
62.5°	3.5
65°	2.8
67.5°	2.2
70°	1.4
72.5°	1.4
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)