

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: P581581

Luminaire Tested: **HC610D010-HM60525830-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525830-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1139.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

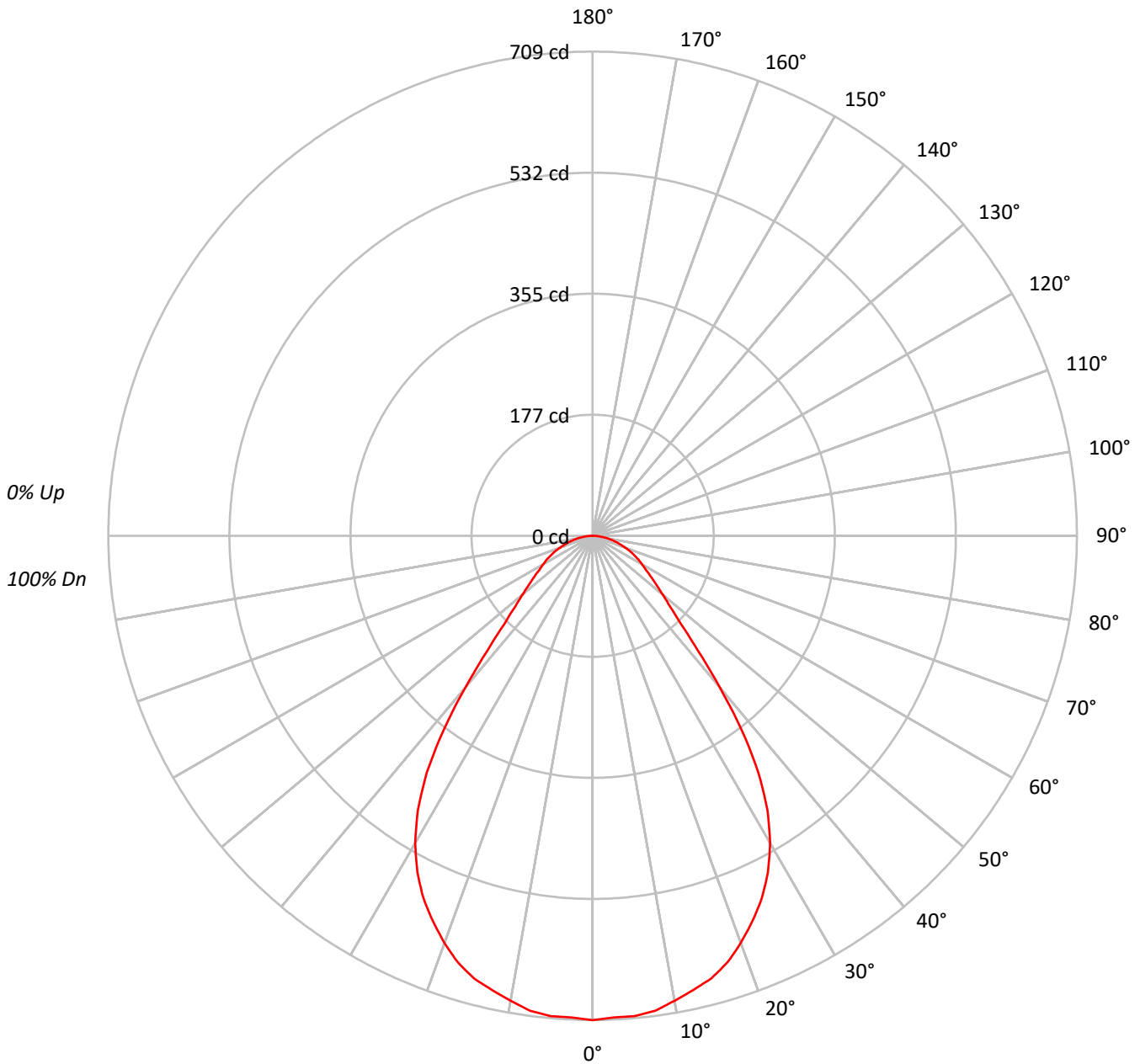
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38884
5°	38856
10°	38482
15°	38082
20°	37010
25°	35446
30°	32897
35°	28302
40°	20660
45°	14157
50°	11386
55°	9921
60°	9155
65°	8704
70°	8126
75°	7604
80°	6882
85°	5913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	5.9
10°-20°	188.5	16.5
20°-30°	268.0	23.5
30°-40°	258.1	22.6
40°-50°	148.5	13.0
50°-60°	94.1	8.3
60°-70°	66.6	5.8
70°-80°	38.0	3.3
80°-90°	10.8	0.9
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°	523.4	45.9
0°-40°	781.5	68.6
0°-60°	1024.0	89.9
0°-90°	1139.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	709	
5°	706	67
15°	671	188
25°	586	268
35°	423	258
45°	183	148
55°	104	94
65°	67	67
75°	36	38
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	709.3
2.5°	706.1
5°	706.1
7.5°	701.5
10°	691.3
12.5°	681.2
15°	671.0
17.5°	655.4
20°	634.4
22.5°	610.9
25°	586.0
27.5°	555.6
30°	519.7
32.5°	476.0
35°	422.9
37.5°	358.2
40°	288.7
42.5°	227.9
45°	182.6
47.5°	153.7
50°	133.5
52.5°	117.0
55°	103.8
57.5°	92.0
60°	83.5
62.5°	75.7
65°	67.1
67.5°	59.3
70°	50.7
72.5°	42.9
75°	35.9
77.5°	28.9
80°	21.8
82.5°	15.6
85°	9.4
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)