

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: P593062

Luminaire Tested: **HC610D010-HM60525850-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525850-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1114.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

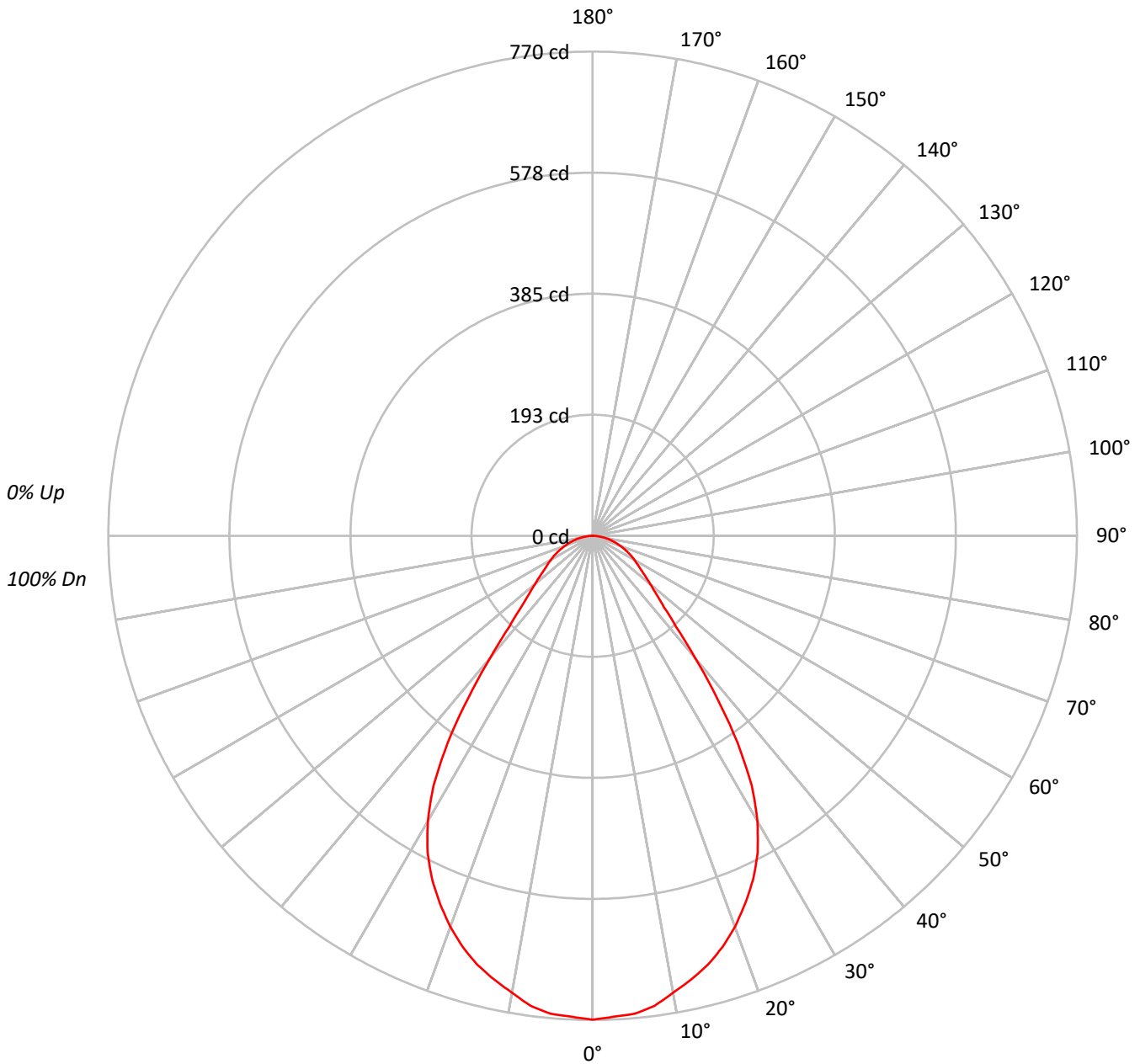
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42190
5°	41993
10°	41065
15°	40102
20°	38591
25°	36504
30°	33170
35°	26850
40°	18105
45°	12443
50°	10192
55°	8927
60°	8442
65°	7965
70°	7469
75°	7117
80°	6472
85°	5724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	6.5
10°-20°	198.4	17.8
20°-30°	275.7	24.7
30°-40°	245.5	22.0
40°-50°	130.3	11.7
50°-60°	85.2	7.6
60°-70°	61.1	5.5
70°-80°	35.4	3.2
80°-90°	10.4	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°	546.2	49.0
0°-40°	791.6	71.1
0°-60°	1007.1	90.4
0°-90°	1114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1114.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	770	
5°	763	72
15°	707	198
25°	604	276
35°	401	245
45°	160	130
55°	93	85
65°	61	61
75°	34	35
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	769.6
2.5°	765.6
5°	763.1
7.5°	754.1
10°	737.7
12.5°	723.0
15°	706.6
17.5°	686.1
20°	661.5
22.5°	633.7
25°	603.5
27.5°	568.3
30°	524.0
32.5°	470.8
35°	401.2
37.5°	324.2
40°	253.0
42.5°	196.5
45°	160.5
47.5°	136.7
50°	119.5
52.5°	105.6
55°	93.4
57.5°	84.3
60°	77.0
62.5°	69.6
65°	61.4
67.5°	54.0
70°	46.6
72.5°	40.1
75°	33.6
77.5°	27.1
80°	20.5
82.5°	14.7
85°	9.1
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)