

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: P593080

Luminaire Tested: **HC610D010-HM60525950-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593080
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-HM60525950-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 970.4 lumens
Efficiency: N/A
Efficacy: 98.0 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

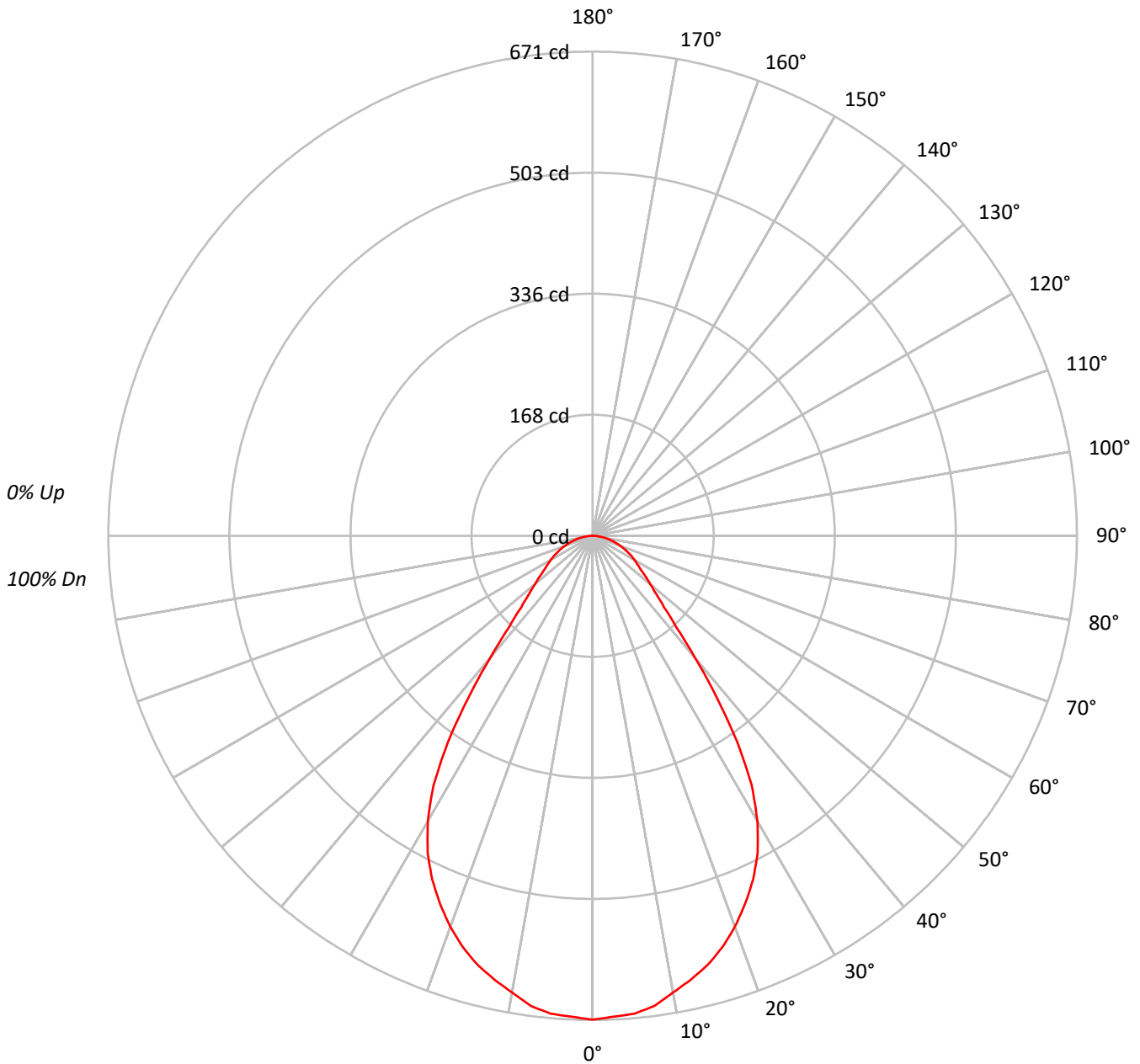
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79		
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63		
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57		
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44		
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36762
5°	36584
10°	35776
15°	34938
20°	33626
25°	31798
30°	28897
35°	23396
40°	15772
45°	10838
50°	8878
55°	7770
60°	7346
65°	6940
70°	6508
75°	6185
80°	5651
85°	4906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	6.5
10°-20°	172.9	17.8
20°-30°	240.2	24.7
30°-40°	213.8	22.0
40°-50°	113.5	11.7
50°-60°	74.2	7.6
60°-70°	53.2	5.5
70°-80°	30.8	3.2
80°-90°	9.0	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°	475.8	49.0
0°-40°	689.6	71.1
0°-60°	877.4	90.4
0°-90°	970.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	970.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	671	
5°	665	63
15°	616	173
25°	526	240
35°	350	214
45°	140	114
55°	81	74
65°	54	53
75°	29	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	670.6
2.5°	667.0
5°	664.8
7.5°	657.0
10°	642.7
12.5°	629.8
15°	615.6
17.5°	597.8
20°	576.4
22.5°	552.2
25°	525.7
27.5°	495.0
30°	456.5
32.5°	410.1
35°	349.6
37.5°	282.4
40°	220.4
42.5°	171.2
45°	139.8
47.5°	119.1
50°	104.1
52.5°	92.0
55°	81.3
57.5°	73.5
60°	67.0
62.5°	60.7
65°	53.5
67.5°	47.1
70°	40.6
72.5°	35.0
75°	29.2
77.5°	23.5
80°	17.9
82.5°	12.8
85°	7.8
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)