

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: P581638

Luminaire Tested: **HC610D010-HM60525927-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525927-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 848.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

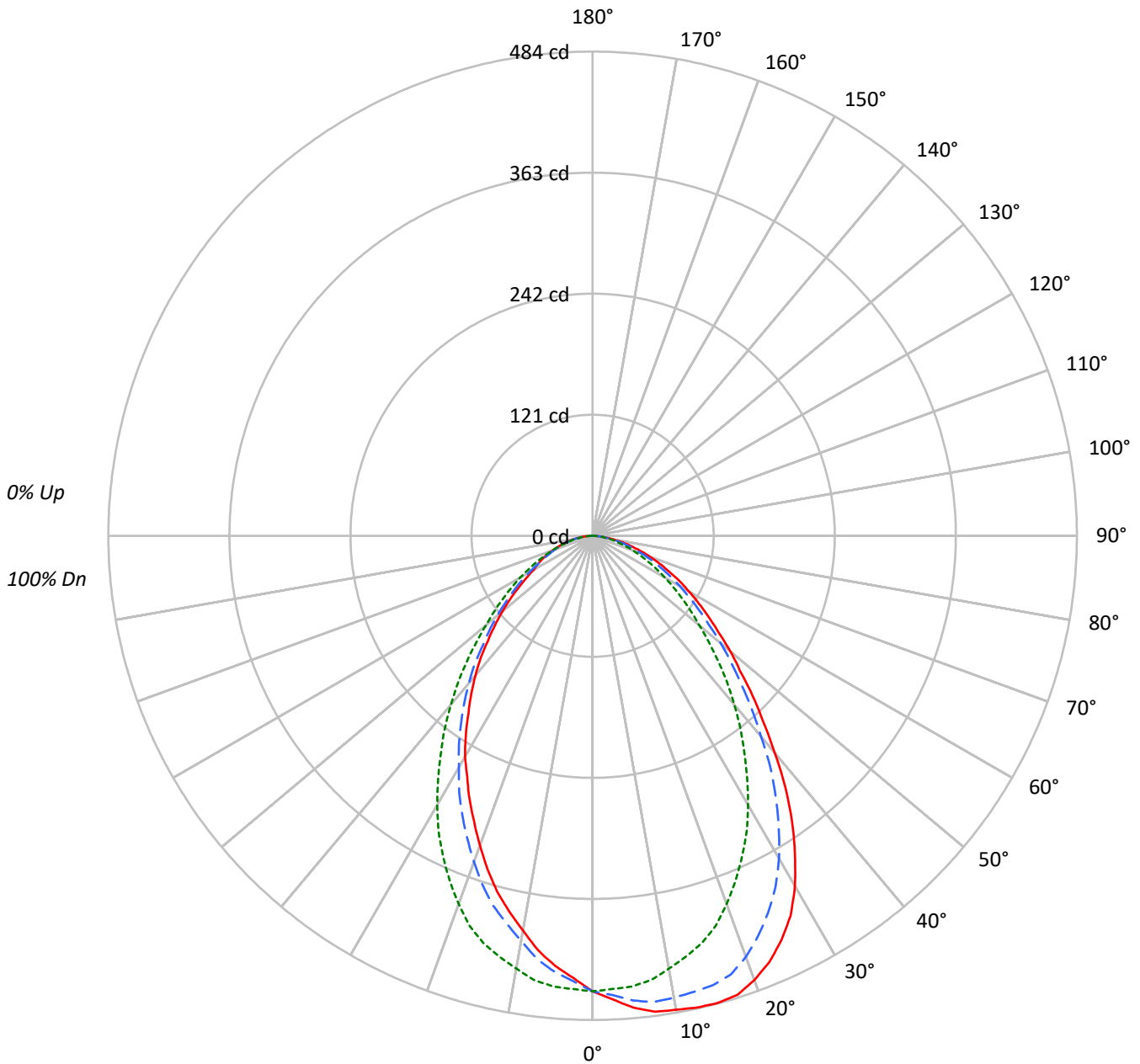
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76			76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			51
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46			46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42			42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38			38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34			34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24960	24960	24960
5°	26068	24884	23740
10°	26781	24454	22305
15°	27441	23927	20897
20°	27565	22845	19199
25°	26983	21388	17602
30°	25605	19668	16135
35°	23249	17674	14475
40°	20259	15737	13024
45°	17537	13777	11451
50°	15309	11863	10030
55°	13534	10427	8611
60°	12159	9133	7456
65°	10896	7939	7238
70°	9729	6780	6780
75°	8430	5698	6354
80°	6756	4830	5777
85°	4655	4277	4969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	5.0
10°-20°	119.0	14.0
20°-30°	165.8	19.5
30°-40°	170.8	20.1
40°-50°	141.6	16.7
50°-60°	101.7	12.0
60°-70°	64.8	7.6
70°-80°	33.3	3.9
80°-90°	8.5	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°	327.5	38.6
0°-40°	498.3	58.8
0°-60°	741.6	87.4
0°-90°	848.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	455	455	455	455	455	
5°	474	466	452	438	431	45
15°	484	465	422	383	368	136
25°	446	415	354	308	291	204
35°	347	319	264	229	216	216
45°	226	210	178	155	148	175
55°	142	130	109	97	90	128
65°	84	75	61	53	56	84
75°	40	34	27	28	30	42
85°	7	7	7	7	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	455.3	455.3	455.3	455.3	455.3	455.3	455.3	455.3	455.3
2.5°	463.9	462.1	459.6	457.1	453.5	449.2	445.6	444.3	442.5
5°	473.7	471.3	466.4	460.3	452.2	444.3	437.5	433.2	431.4
7.5°	479.9	476.8	470.0	459.6	447.9	436.3	426.5	420.4	417.9
10°	481.1	478.0	468.8	454.7	439.3	423.5	411.1	403.8	400.7
12.5°	482.9	478.6	466.9	450.4	430.8	412.4	397.1	387.9	384.9
15°	483.5	478.6	465.1	444.9	421.6	399.6	383.0	372.0	368.2
17.5°	481.1	475.6	459.6	435.1	408.8	385.4	365.9	354.2	349.3
20°	472.5	466.4	447.9	420.4	391.6	367.1	346.8	334.6	329.1
22.5°	461.4	453.5	432.7	403.2	373.2	347.4	327.3	315.0	309.5
25°	446.1	438.8	415.4	384.2	353.6	326.6	308.2	295.3	291.0
27.5°	428.3	419.7	395.9	364.6	333.4	306.4	288.7	277.0	271.5
30°	404.5	396.5	372.5	341.3	310.7	285.6	267.2	257.4	254.9
32.5°	376.3	369.5	346.3	316.8	287.4	264.1	248.8	238.4	235.9
35°	347.4	339.5	319.2	291.7	264.1	243.3	229.2	219.9	216.3
37.5°	316.2	308.8	291.7	267.2	242.7	223.1	210.8	202.9	199.1
40°	283.1	277.6	261.7	242.0	219.9	202.9	192.4	185.6	182.0
42.5°	252.4	247.0	235.9	217.6	199.1	183.8	174.7	168.6	165.5
45°	226.2	221.2	210.2	194.3	177.7	164.8	155.1	150.8	147.7
47.5°	199.8	197.3	187.6	172.9	157.5	146.5	139.7	134.8	132.3
50°	179.5	176.5	167.3	152.0	139.1	130.5	124.4	120.1	117.6
52.5°	158.7	155.6	147.0	134.3	123.8	115.8	109.7	106.1	103.6
55°	141.6	139.1	130.0	118.3	109.1	102.3	96.8	92.5	90.1
57.5°	125.7	123.2	114.6	103.6	95.7	89.4	84.6	80.9	77.9
60°	110.9	109.1	100.5	90.1	83.3	77.2	72.9	69.8	68.0
62.5°	98.0	94.4	87.1	77.9	71.7	66.8	62.5	60.7	61.9
65°	84.0	82.1	74.7	66.8	61.2	56.4	53.3	54.6	55.8
67.5°	72.3	69.8	63.7	56.4	51.5	47.8	46.0	48.4	49.0
70°	60.7	58.2	52.8	46.5	42.3	39.8	39.8	41.7	42.3
72.5°	49.6	47.8	42.9	38.0	35.0	33.1	34.3	35.5	36.1
75°	39.8	38.0	34.3	30.0	26.9	26.9	28.2	29.4	30.0
77.5°	30.7	29.4	25.7	22.6	21.4	21.4	22.6	23.3	23.9
80°	21.4	20.3	18.3	16.5	15.3	16.5	17.8	17.8	18.3
82.5°	14.2	13.5	12.2	11.0	11.0	11.7	12.2	12.9	12.9
85°	7.4	7.4	6.8	6.1	6.8	7.4	7.4	7.9	7.9
87.5°	2.5	2.5	2.5	2.5	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)