

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: P581693

Luminaire Tested: **HC610D010-HM60525940-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525940-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1021.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

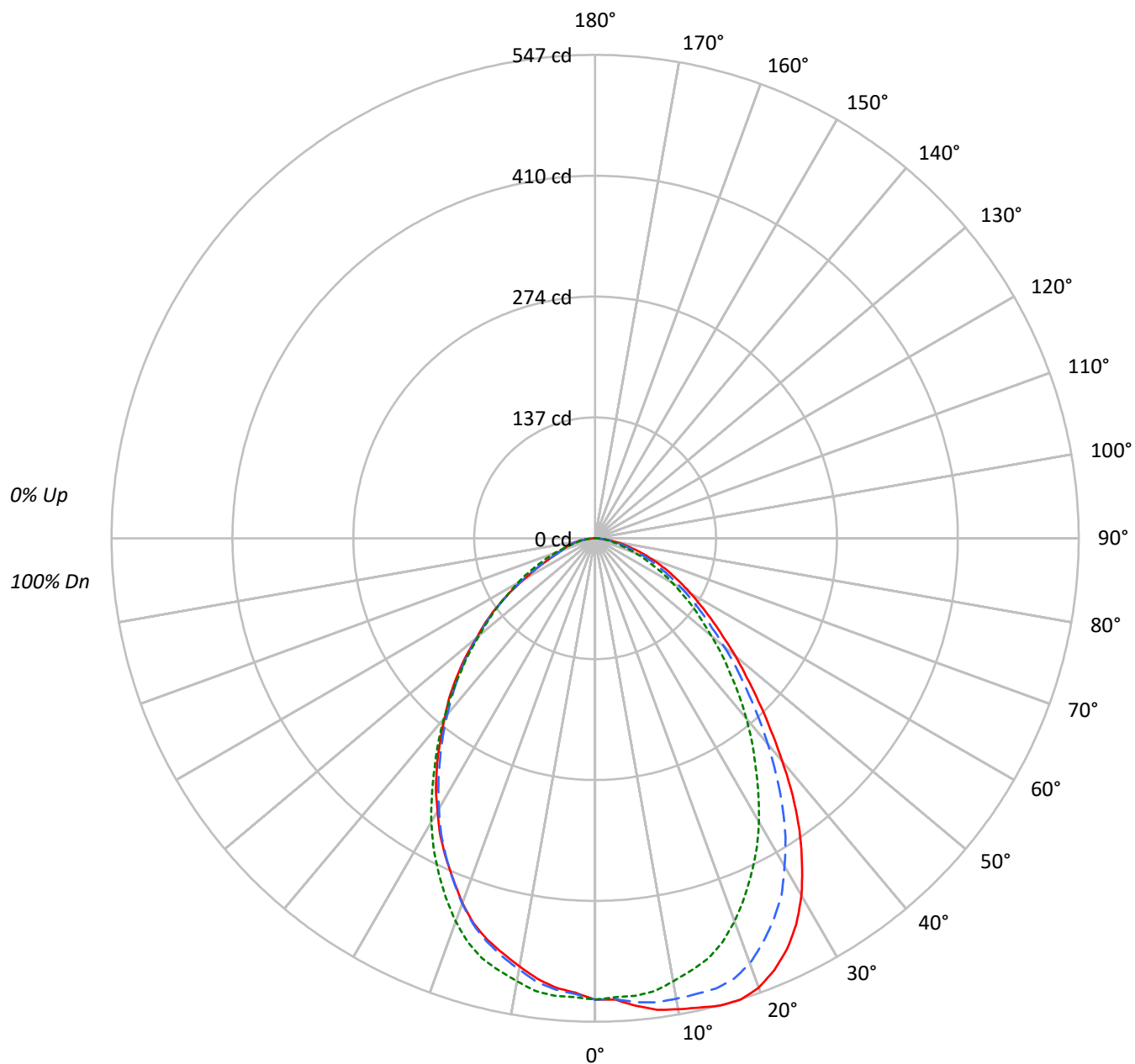
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28611	28611	28611
5°	29221	28599	28087
10°	30121	28328	27382
15°	31067	27951	26703
20°	31567	26906	25616
25°	31042	25308	24141
30°	29555	23466	22567
35°	26957	21181	20847
40°	23566	19029	18921
45°	20281	16746	17134
50°	17628	14584	14899
55°	15397	12807	12941
60°	13672	11096	10164
65°	12206	9340	7770
70°	10739	7662	6508
75°	9214	6037	6185
80°	7419	5177	6061
85°	4906	4466	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	4.8
10°-20°	140.6	13.8
20°-30°	200.8	19.6
30°-40°	210.3	20.6
40°-50°	177.1	17.3
50°-60°	126.0	12.3
60°-70°	73.8	7.2
70°-80°	34.9	3.4
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°	390.8	38.2
0°-40°	601.1	58.8
0°-60°	904.2	88.5
0°-90°	1021.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	522	522	522	522	522	
5°	531	527	520	513	510	51
15°	547	528	492	473	470	155
25°	513	477	418	398	399	235
35°	403	369	316	306	312	250
45°	262	242	216	217	221	203
55°	161	148	134	134	135	145
65°	94	83	72	61	60	94
75°	44	36	28	28	29	47
85°	8	6	7	9	9	10
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°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	522.5	522.5	521.9	521.1	519.7	517.6	516.1	514.7	514.7
5°	531.0	529.7	526.8	523.2	519.7	515.4	512.6	510.4	510.4
7.5°	538.2	535.3	529.7	523.2	516.8	511.1	506.1	503.3	502.6
10°	541.1	537.5	529.0	518.9	508.9	501.1	495.5	491.9	491.9
12.5°	543.9	539.6	528.2	513.9	501.1	490.4	484.7	481.9	481.2
15°	547.4	541.8	527.5	509.7	492.5	480.4	472.6	470.5	470.5
17.5°	547.4	540.3	522.5	500.5	479.1	465.5	458.3	456.2	457.0
20°	541.1	533.2	511.8	484.7	461.2	446.9	439.8	438.4	439.1
22.5°	529.0	519.7	495.5	466.2	440.6	425.5	419.2	419.2	418.4
25°	513.2	503.3	476.9	446.2	418.4	403.4	398.5	399.1	399.1
27.5°	492.5	482.6	456.2	423.5	395.6	380.7	377.1	378.5	379.2
30°	466.9	456.2	428.5	396.3	370.7	355.7	353.5	355.7	356.5
32.5°	435.6	427.7	400.6	367.8	343.6	330.8	330.1	332.2	335.1
35°	402.8	394.2	369.3	339.3	316.5	305.9	305.9	309.4	311.5
37.5°	367.1	358.6	335.8	310.8	291.6	281.5	283.0	286.5	287.3
40°	329.3	323.0	303.7	282.3	265.9	258.1	260.1	263.8	264.4
42.5°	293.6	288.0	272.4	253.1	240.9	235.2	238.1	242.4	243.8
45°	261.6	255.2	242.4	225.9	216.0	213.2	216.7	219.6	221.0
47.5°	232.4	226.7	216.0	201.0	193.9	192.4	196.1	197.4	198.9
50°	206.7	201.0	190.3	176.8	171.0	171.0	174.0	175.3	174.7
52.5°	181.8	176.8	166.9	155.4	151.8	151.8	154.0	154.6	156.1
55°	161.1	156.1	147.6	136.9	134.0	132.6	134.0	134.0	135.4
57.5°	141.8	137.5	129.7	119.8	116.1	114.8	114.1	113.3	114.8
60°	124.7	121.2	112.6	104.0	101.2	97.7	94.9	91.9	92.7
62.5°	109.0	105.5	97.7	89.1	86.3	81.3	77.7	74.1	75.6
65°	94.1	90.6	83.4	76.3	72.0	66.3	60.6	58.4	59.9
67.5°	80.6	77.7	70.5	63.4	59.9	53.4	47.8	47.8	48.4
70°	67.0	64.2	58.4	52.1	47.8	42.1	40.0	40.6	40.6
72.5°	54.9	52.8	47.1	41.3	37.0	33.5	33.5	34.2	35.0
75°	43.5	42.1	36.3	31.4	28.5	26.4	27.8	28.5	29.2
77.5°	33.5	31.4	27.1	23.5	21.4	22.1	23.5	24.2	24.9
80°	23.5	22.9	19.2	17.1	16.4	17.1	18.6	19.2	19.2
82.5°	14.9	14.3	12.1	11.4	11.4	12.1	13.6	13.6	13.6
85°	7.8	7.1	6.5	6.5	7.1	7.8	8.6	8.6	8.6
87.5°	2.8	2.2	2.8	2.8	3.5	3.5	3.5	3.5	3.5
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)