

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: P593120

Luminaire Tested: **HC615D010-HM60525950-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525950-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1456.7 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

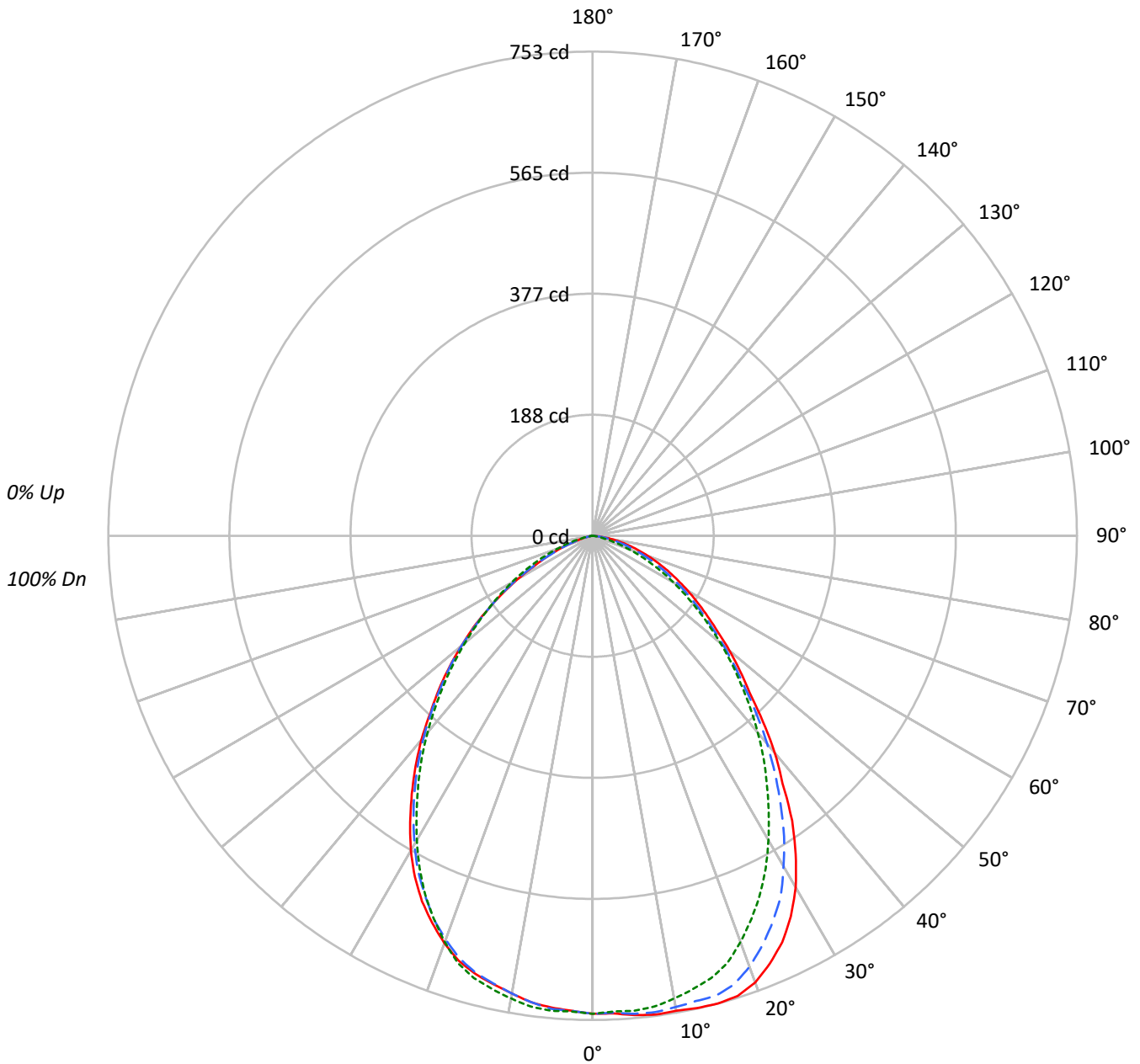
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40753	40753	40753
5°	41179	40799	40529
10°	41761	40675	40241
15°	42741	40420	40034
20°	43141	39221	39332
25°	42196	37242	37950
30°	39962	34600	35771
35°	36185	31621	32799
40°	31516	28582	29627
45°	26739	25305	26212
50°	23675	22097	22677
55°	20864	18905	18809
60°	18694	15920	14637
65°	16681	12764	10481
70°	14682	9200	6572
75°	12391	5571	3728
80°	9534	2462	1547
85°	5472	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	4.8
10°-20°	202.8	13.9
20°-30°	293.2	20.1
30°-40°	308.5	21.2
40°-50°	259.3	17.8
50°-60°	182.0	12.5
60°-70°	100.1	6.9
70°-80°	35.6	2.4
80°-90°	4.7	0.3
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°	566.5	38.9
0°-40°	875.0	60.1
0°-60°	1316.3	90.4
0°-90°	1456.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	743	743	743	743	743	
5°	748	746	741	738	736	71
15°	753	740	712	704	705	213
25°	698	662	616	617	627	319
35°	541	510	472	482	490	335
45°	345	335	326	334	338	271
55°	218	207	198	198	197	196
65°	129	115	98	81	81	128
75°	58	47	26	18	18	63
85°	9	5	1	1	1	12
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°	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4
2.5°	743.4	743.4	742.4	742.4	740.5	740.5	739.5	739.5	739.5
5°	748.3	748.3	746.3	743.4	741.4	738.5	738.5	737.5	736.5
7.5°	751.1	750.2	747.3	743.4	738.5	733.7	731.7	732.6	731.7
10°	750.2	748.3	744.3	736.5	730.7	723.9	722.9	722.0	722.9
12.5°	752.2	749.2	741.4	731.7	722.0	714.1	713.1	713.1	714.1
15°	753.1	750.2	740.5	725.8	712.2	704.4	703.5	704.4	705.4
17.5°	750.2	746.3	731.7	712.2	696.7	688.8	688.8	690.8	692.7
20°	739.5	733.7	713.1	689.7	672.3	666.4	668.4	672.3	674.2
22.5°	720.0	713.1	689.7	663.5	645.0	640.1	645.0	649.9	651.8
25°	697.6	689.7	662.5	635.3	615.7	609.9	616.8	624.5	627.4
27.5°	667.4	658.6	633.3	602.1	582.6	579.6	587.5	596.2	598.3
30°	631.3	621.6	593.4	564.1	546.6	545.6	554.3	562.2	565.1
32.5°	587.5	578.7	554.3	525.2	509.5	509.5	518.4	525.2	528.1
35°	540.7	531.0	509.5	485.2	472.5	473.5	482.3	487.1	490.1
37.5°	485.2	482.3	465.7	445.3	436.5	438.5	445.3	449.1	452.1
40°	440.4	432.5	421.9	405.3	399.4	401.4	408.3	412.1	414.0
42.5°	391.7	386.8	378.1	366.4	362.4	365.4	371.3	374.1	373.2
45°	344.9	343.9	335.2	328.4	326.4	330.3	334.1	337.1	338.1
47.5°	310.8	306.9	299.1	294.2	292.3	296.2	300.1	302.0	302.0
50°	277.6	273.8	265.9	261.2	259.1	263.1	265.9	268.0	265.9
52.5°	244.6	240.6	233.8	228.0	227.0	228.9	230.0	230.9	232.9
55°	218.3	214.3	206.6	199.8	197.8	198.7	197.8	197.8	196.8
57.5°	193.0	189.0	181.3	173.4	170.5	169.6	166.6	165.6	164.7
60°	170.5	165.6	157.9	149.0	145.2	141.3	136.4	133.5	133.5
62.5°	149.0	144.1	135.4	127.7	121.8	115.0	107.1	103.3	103.3
65°	128.6	124.7	115.0	106.2	98.4	89.7	80.8	78.9	80.8
67.5°	109.1	105.2	95.5	86.7	77.0	66.3	58.5	58.5	60.4
70°	91.6	87.7	78.9	68.2	57.4	46.8	41.0	41.0	41.0
72.5°	75.0	71.2	61.4	51.6	41.0	30.2	27.2	28.3	27.2
75°	58.5	55.5	46.8	36.1	26.3	18.5	17.6	16.6	17.6
77.5°	43.8	41.0	33.1	23.4	14.6	10.7	9.8	9.8	9.8
80°	30.2	27.2	21.5	13.6	7.8	4.9	4.9	4.9	4.9
82.5°	18.5	15.5	11.7	6.8	3.0	3.0	3.0	3.0	3.0
85°	8.7	6.8	4.9	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.9	1.9	1.0	1.0	0.0	1.0	1.0	0.0	0.0
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)