

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: P581728

Luminaire Tested: **HC615D010-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581728
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: HC615D010-HM60525830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1475.8 lumens
Efficiency: N/A
Efficacy: 105.4 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

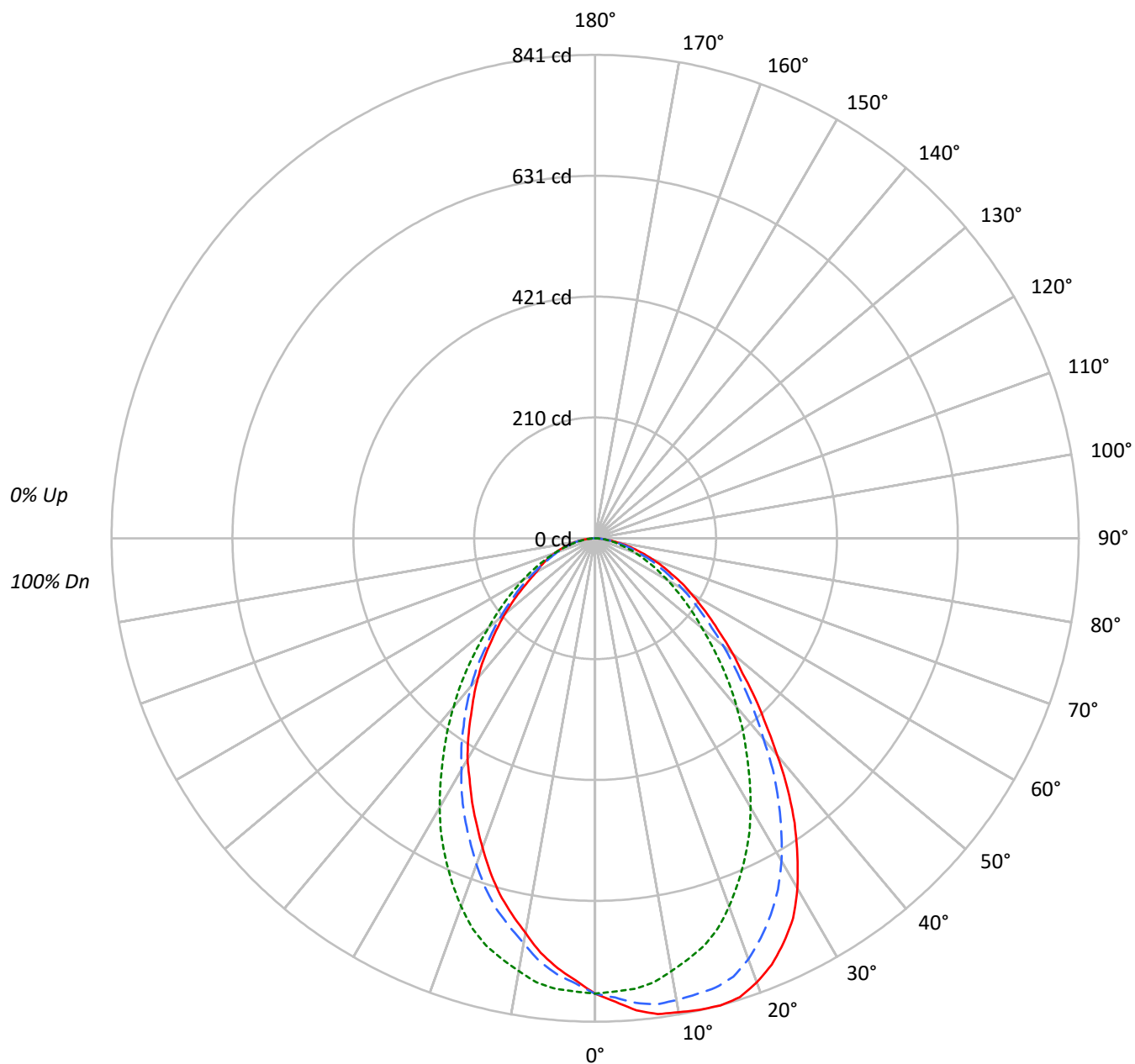
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43429	43429	43429
5°	45355	43303	41311
10°	46598	42557	38816
15°	47747	41635	36368
20°	47960	39746	33405
25°	46950	37218	30631
30°	44545	34220	28080
35°	40462	30758	25190
40°	35252	27394	22664
45°	30507	23971	19925
50°	26652	20648	17466
55°	23540	18140	14977
60°	21161	15909	12981
65°	18951	13828	12582
70°	16926	11781	11781
75°	14678	9934	11056
80°	11775	8429	10102
85°	8051	7359	8680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	5.0
10°-20°	207.0	14.0
20°-30°	288.5	19.5
30°-40°	297.2	20.1
40°-50°	246.3	16.7
50°-60°	177.0	12.0
60°-70°	112.7	7.6
70°-80°	57.9	3.9
80°-90°	14.7	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°	569.9	38.6
0°-40°	867.1	58.8
0°-60°	1290.4	87.4
0°-90°	1475.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	792	792	792	792	792	
5°	824	811	787	761	751	79
15°	841	809	734	666	641	237
25°	776	723	615	536	506	356
35°	605	556	460	399	376	376
45°	394	366	309	270	257	305
55°	246	226	190	168	157	222
65°	146	130	107	93	97	146
75°	69	60	47	49	52	74
85°	13	12	12	13	14	16
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°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	807.2	804.0	799.7	795.4	789.1	781.6	775.2	773.0	769.9
5°	824.2	819.9	811.4	800.7	786.9	773.0	761.4	753.9	750.7
7.5°	834.9	829.6	817.9	799.7	779.4	759.2	742.2	731.5	727.2
10°	837.1	831.7	815.7	791.2	764.5	736.8	715.5	702.7	697.3
12.5°	840.2	832.7	812.5	783.7	749.6	717.7	691.0	675.0	669.6
15°	841.3	832.7	809.3	774.1	733.6	695.2	666.5	647.3	640.8
17.5°	837.1	827.4	799.7	757.0	711.2	670.7	636.6	616.3	607.8
20°	822.1	811.4	779.4	731.5	681.3	638.7	603.5	582.1	572.6
22.5°	802.9	789.1	752.8	701.7	649.3	604.6	569.4	548.1	538.4
25°	776.2	763.5	723.0	668.5	615.3	568.3	536.3	513.9	506.4
27.5°	745.4	730.4	688.8	634.5	580.1	533.1	502.2	481.9	472.4
30°	703.7	689.9	648.3	593.9	540.6	496.9	464.9	447.9	443.6
32.5°	654.7	643.0	602.5	551.3	500.1	459.6	432.9	414.7	410.5
35°	604.6	590.8	555.6	507.6	459.6	423.4	398.8	382.8	376.4
37.5°	550.2	537.4	507.6	464.9	422.2	388.2	366.8	353.0	346.5
40°	492.6	483.1	455.2	421.2	382.8	353.0	334.8	323.1	316.7
42.5°	439.4	429.7	410.5	378.5	346.5	319.8	303.8	293.3	287.9
45°	393.5	384.9	365.7	338.0	309.2	286.8	269.8	262.3	257.0
47.5°	347.7	343.3	326.3	300.7	274.0	254.8	243.1	234.6	230.3
50°	312.5	307.1	291.1	264.5	242.1	227.1	216.4	209.0	204.8
52.5°	276.1	270.8	255.9	233.5	215.4	201.6	190.9	184.4	180.2
55°	246.3	242.1	226.1	205.8	189.8	178.1	168.4	161.1	156.7
57.5°	218.6	214.3	199.4	180.2	166.4	155.7	147.1	140.7	135.4
60°	193.0	189.8	174.9	156.7	145.1	134.4	126.9	121.6	118.4
62.5°	170.6	164.2	151.4	135.4	124.7	116.2	108.7	105.6	107.7
65°	146.1	142.9	130.1	116.2	106.6	98.1	92.7	94.9	97.0
67.5°	125.9	121.6	110.9	98.1	89.6	83.2	80.0	84.2	85.4
70°	105.6	101.2	91.7	81.0	73.5	69.3	69.3	72.5	73.5
72.5°	86.4	83.2	74.7	66.1	60.7	57.5	59.7	61.9	62.9
75°	69.3	66.1	59.7	52.2	46.9	46.9	49.0	51.2	52.2
77.5°	53.3	51.2	44.8	39.5	37.3	37.3	39.5	40.5	41.5
80°	37.3	35.2	32.0	28.8	26.7	28.8	30.9	30.9	32.0
82.5°	24.5	23.5	21.3	19.2	19.2	20.2	21.3	22.4	22.4
85°	12.8	12.8	11.7	10.7	11.7	12.8	12.8	13.8	13.8
87.5°	4.3	4.3	4.3	4.3	5.3	5.3	5.3	5.3	5.3
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)