

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: P581846

Luminaire Tested: **HC620D010-HM60525827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1994.4 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

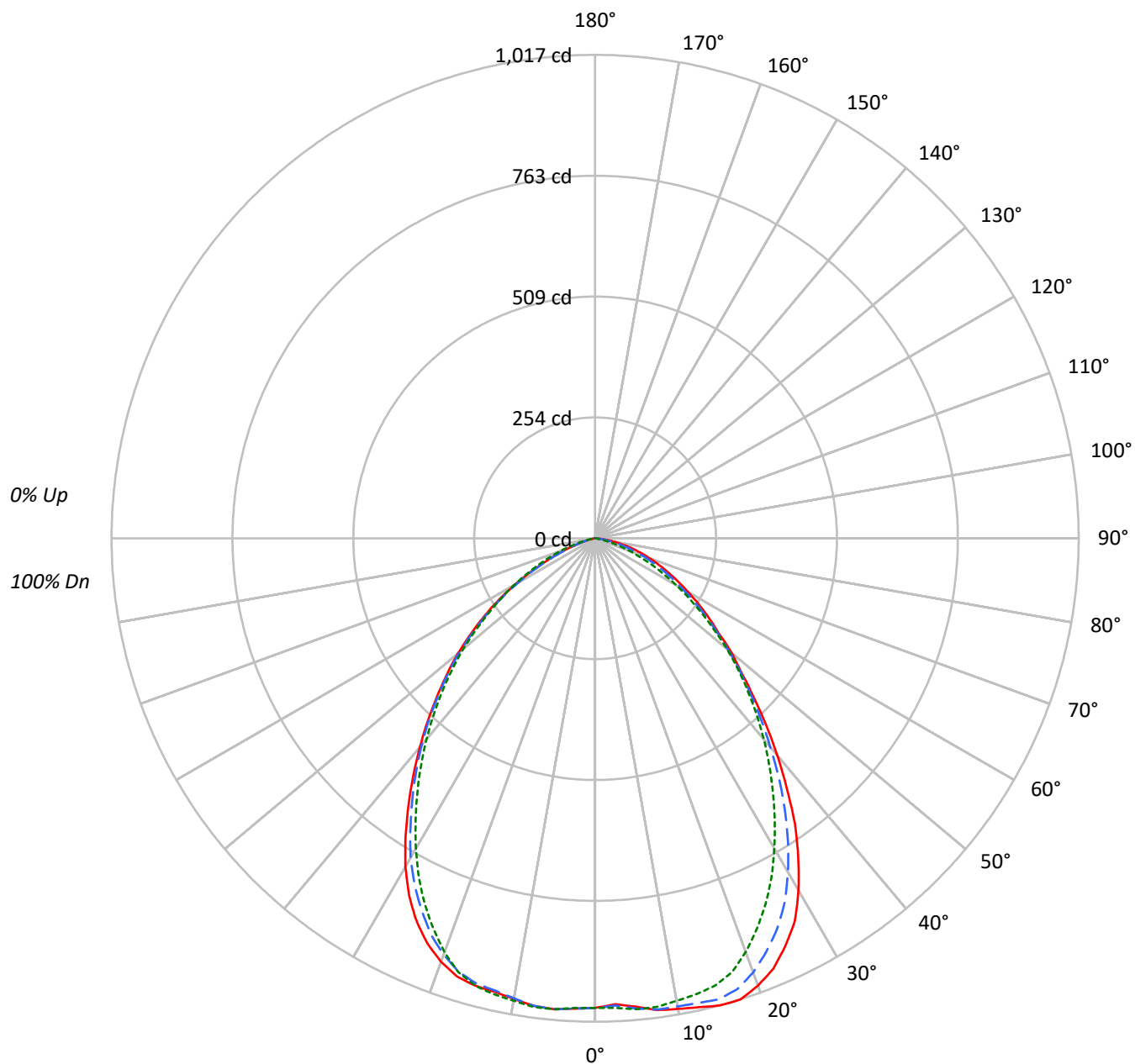
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	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	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	54157	54157	54157
5°	54435	54727	54727
10°	55961	54992	54770
15°	57736	55307	55307
20°	58408	54039	55293
25°	57245	51330	53761
30°	54148	47710	50495
35°	49008	43627	45775
40°	42623	39467	41005
45°	36430	35182	36430
50°	31965	30822	32084
55°	27899	25968	27000
60°	24658	21577	21281
65°	21883	17019	14580
70°	19298	12021	8784
75°	16436	6820	4257
80°	12281	2115	1263
85°	6793	881	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	4.8
10°-20°	277.2	13.9
20°-30°	404.9	20.3
30°-40°	424.7	21.3
40°-50°	357.8	17.9
50°-60°	250.7	12.6
60°-70°	134.4	6.7
70°-80°	45.1	2.3
80°-90°	4.9	0.2
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°	776.9	39.0
0°-40°	1201.6	60.2
0°-60°	1810.0	90.8
0°-90°	1994.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	988	988	988	988	988	
5°	989	993	994	994	994	95
15°	1017	1004	974	969	974	287
25°	946	906	849	863	889	434
35°	732	695	652	671	684	454
45°	470	462	454	466	470	366
55°	292	282	272	277	282	263
65°	169	154	131	108	112	168
75°	78	60	32	20	20	82
85°	11	5	1	1	1	15
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°	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9
2.5°	981.2	981.2	983.9	986.5	989.2	989.2	990.6	991.9	990.6
5°	989.2	989.2	993.2	994.5	994.5	993.2	994.5	994.5	994.5
7.5°	1001.2	998.6	999.9	997.3	994.5	993.2	991.9	991.9	991.9
10°	1005.3	1002.6	999.9	994.5	987.9	983.9	982.5	983.9	983.9
12.5°	1010.6	1007.9	1001.2	990.6	982.5	975.9	974.5	977.2	977.2
15°	1017.3	1014.6	1004.0	986.5	974.5	967.8	969.2	971.8	974.5
17.5°	1017.3	1012.0	994.5	971.8	957.0	950.4	955.8	962.5	966.4
20°	1001.2	995.9	971.8	943.7	926.3	922.3	931.7	943.7	947.8
22.5°	979.8	969.2	941.1	907.5	888.8	888.8	902.2	916.9	922.3
25°	946.4	938.4	906.2	867.4	848.6	847.4	863.3	883.5	888.8
27.5°	908.9	898.2	863.3	823.2	803.2	804.5	821.9	841.9	847.4
30°	855.4	841.9	811.2	772.4	753.7	759.0	776.3	791.1	797.7
32.5°	795.1	783.1	754.9	718.8	702.8	708.1	722.9	736.2	741.5
35°	732.3	718.8	694.8	662.6	651.9	657.3	670.6	681.4	684.0
37.5°	661.2	651.9	634.5	609.1	601.1	607.7	618.4	625.1	627.8
40°	595.6	587.7	573.0	554.2	551.5	556.9	567.5	571.6	573.0
42.5°	531.4	524.7	515.4	501.9	501.9	507.4	516.6	519.4	520.7
45°	469.9	465.8	461.8	451.2	453.8	460.5	465.8	469.9	469.9
47.5°	416.3	417.6	412.3	404.3	407.0	413.7	417.6	421.7	421.7
50°	374.8	370.8	365.4	357.3	361.4	366.8	372.1	374.8	376.2
52.5°	326.6	325.3	321.2	311.9	314.5	317.2	322.6	326.6	328.0
55°	291.9	287.8	282.5	271.7	271.7	274.4	277.1	279.7	282.5
57.5°	258.3	254.4	246.3	234.3	232.9	232.9	231.6	234.3	238.3
60°	224.9	223.5	211.5	200.8	196.8	192.7	187.4	188.8	194.1
62.5°	195.4	192.7	182.1	168.7	160.7	154.0	147.3	145.9	151.3
65°	168.7	166.0	154.0	140.6	131.2	119.1	108.4	108.4	112.4
67.5°	144.6	139.2	128.5	113.8	101.7	87.0	76.3	79.0	80.3
70°	120.4	116.5	104.5	89.7	75.0	60.3	53.6	54.8	54.8
72.5°	99.0	93.7	81.7	67.0	52.2	38.9	36.1	34.8	34.8
75°	77.6	72.3	60.3	45.5	32.2	22.8	20.1	20.1	20.1
77.5°	56.2	52.2	41.5	28.1	17.4	10.8	9.4	8.0	8.0
80°	38.9	34.8	25.4	14.7	6.7	4.0	4.0	4.0	4.0
82.5°	22.8	18.7	12.0	6.7	2.7	1.4	1.4	1.4	1.4
85°	10.8	8.0	5.3	2.7	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	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)