

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: P582081

Luminaire Tested: **HC625D010-HM60525930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582081
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: HC625D010-HM60525930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.7 lumens
Efficiency: N/A
Efficacy: 85.4 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

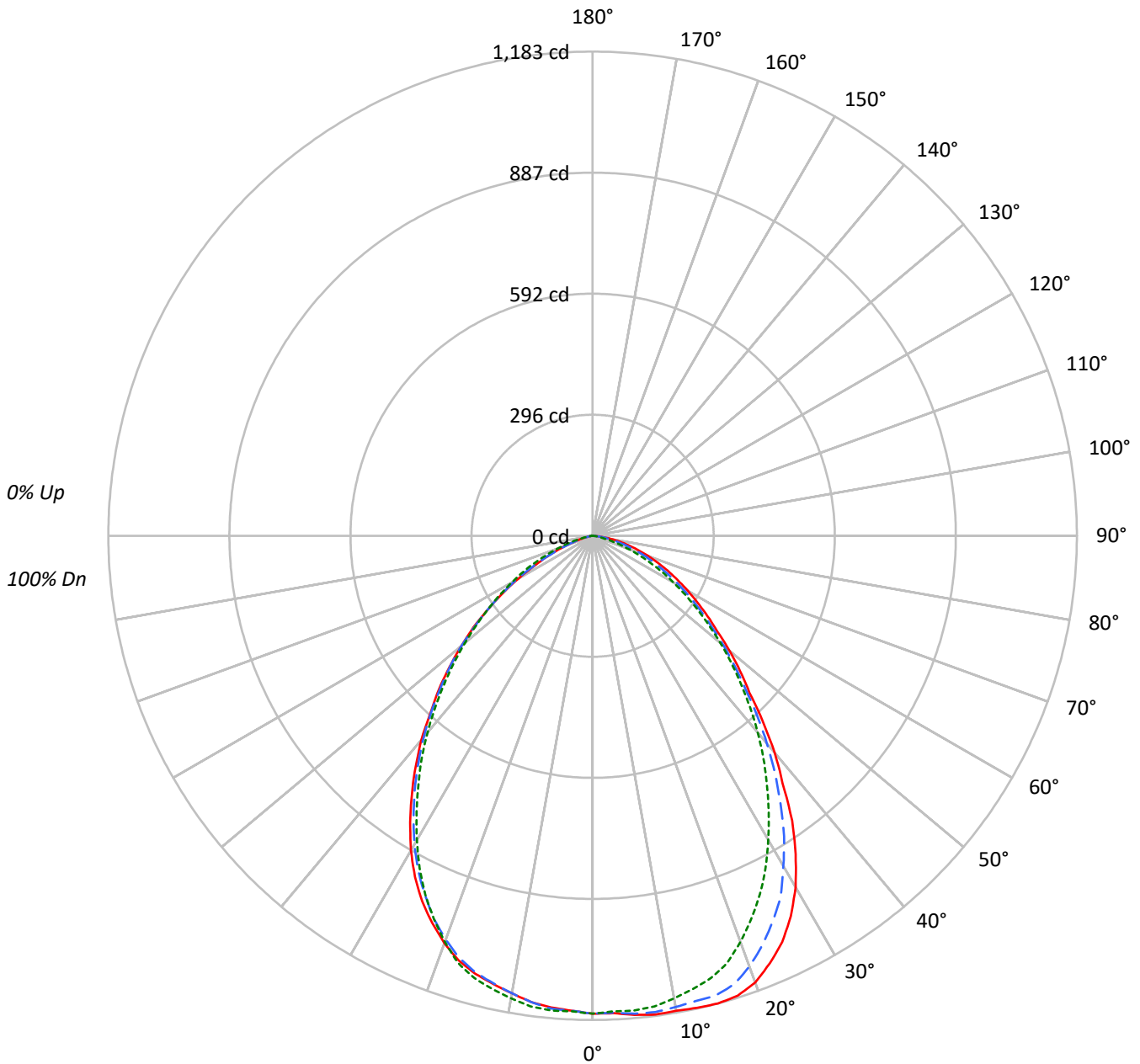
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	64003	64003	64003
5°	64671	64076	63658
10°	65586	63882	63197
15°	67129	63485	62878
20°	67754	61594	61775
25°	66270	58497	59610
30°	62769	54337	56180
35°	56838	49670	51511
40°	49500	44898	46537
45°	41997	39741	41167
50°	37184	34711	35632
55°	32763	29686	29543
60°	29362	24998	22981
65°	26203	20041	16487
70°	23049	14474	10306
75°	19444	8748	5846
80°	14996	3883	2399
85°	8680	943	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	4.8
10°-20°	318.5	13.9
20°-30°	460.4	20.1
30°-40°	484.5	21.2
40°-50°	407.3	17.8
50°-60°	285.8	12.5
60°-70°	157.2	6.9
70°-80°	55.8	2.4
80°-90°	7.3	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°	889.8	38.9
0°-40°	1374.2	60.1
0°-60°	2067.4	90.4
0°-90°	2287.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1168	1168	1168	1168	1168	
5°	1175	1172	1164	1160	1157	112
15°	1183	1163	1119	1105	1108	334
25°	1096	1040	967	969	986	501
35°	849	800	742	757	770	526
45°	542	526	513	525	531	425
55°	343	324	311	311	309	308
65°	202	181	154	127	127	201
75°	92	73	41	28	28	99
85°	14	8	2	2	2	19
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°	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5
2.5°	1167.5	1167.5	1166.0	1166.0	1162.9	1162.9	1161.4	1161.4	1161.4
5°	1175.2	1175.2	1172.2	1167.5	1164.4	1159.9	1159.9	1158.4	1156.8
7.5°	1179.8	1178.2	1173.7	1167.5	1159.9	1152.3	1149.1	1150.8	1149.1
10°	1178.2	1175.2	1169.0	1156.8	1147.6	1137.0	1135.3	1133.8	1135.3
12.5°	1181.3	1176.7	1164.4	1149.1	1133.8	1121.7	1120.1	1120.1	1121.7
15°	1182.8	1178.2	1162.9	1140.0	1118.6	1106.3	1104.8	1106.3	1107.9
17.5°	1178.2	1172.2	1149.1	1118.6	1094.1	1081.8	1081.8	1084.8	1088.0
20°	1161.4	1152.3	1120.1	1083.3	1055.8	1046.6	1049.8	1055.8	1058.9
22.5°	1130.8	1120.1	1083.3	1042.1	1012.9	1005.3	1012.9	1020.7	1023.7
25°	1095.6	1083.3	1040.5	997.6	967.1	957.9	968.6	980.8	985.5
27.5°	1048.1	1034.4	994.6	945.6	915.1	910.4	922.7	936.5	939.5
30°	991.6	976.2	931.9	886.0	858.4	856.9	870.7	882.9	887.5
32.5°	922.7	908.9	870.7	824.7	800.3	800.3	814.1	824.7	829.4
35°	849.3	834.0	800.3	762.1	742.2	743.7	757.4	765.1	769.7
37.5°	762.1	757.4	731.4	699.3	685.5	688.5	699.3	705.4	709.9
40°	691.7	679.4	662.6	636.5	627.4	630.4	641.2	647.3	650.3
42.5°	615.1	607.5	593.7	575.4	569.2	573.9	583.0	587.5	586.0
45°	541.7	540.2	526.4	515.7	512.6	518.7	524.9	529.4	531.0
47.5°	488.2	482.0	469.7	462.1	459.1	465.2	471.3	474.4	474.4
50°	436.0	430.0	417.8	410.1	407.0	413.1	417.8	420.8	417.8
52.5°	384.0	377.9	367.3	358.1	356.5	359.6	361.1	362.6	365.8
55°	342.8	336.7	324.4	313.6	310.6	312.1	310.6	310.6	309.1
57.5°	303.0	296.8	284.6	272.4	267.8	266.3	261.6	260.1	258.6
60°	267.8	260.1	247.8	234.1	228.0	221.9	214.3	209.6	209.6
62.5°	234.1	226.4	212.6	200.5	191.3	180.6	168.3	162.1	162.1
65°	202.0	195.8	180.6	166.8	154.5	140.8	127.1	123.9	127.1
67.5°	171.4	165.3	150.0	136.2	120.9	104.0	91.8	91.8	94.9
70°	143.8	137.7	123.9	107.1	90.3	73.4	64.3	64.3	64.3
72.5°	117.8	111.6	96.4	81.1	64.3	47.5	42.9	44.4	42.9
75°	91.8	87.2	73.4	56.6	41.3	29.1	27.6	26.1	27.6
77.5°	68.9	64.3	52.0	36.7	22.9	16.8	15.3	15.3	15.3
80°	47.5	42.9	33.7	21.4	12.3	7.6	7.6	7.6	7.6
82.5°	29.1	24.4	18.4	10.7	4.6	4.6	4.6	4.6	4.6
85°	13.8	10.7	7.6	3.0	1.5	1.5	1.5	1.5	1.5
87.5°	3.0	3.0	1.5	1.5	0.0	1.5	1.5	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)