

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: P593194

Luminaire Tested: **HC625D010-HM60525950-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593194
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: HC625D010-HM60525950-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2257.5 lumens
Efficiency: N/A
Efficacy: 84.2 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

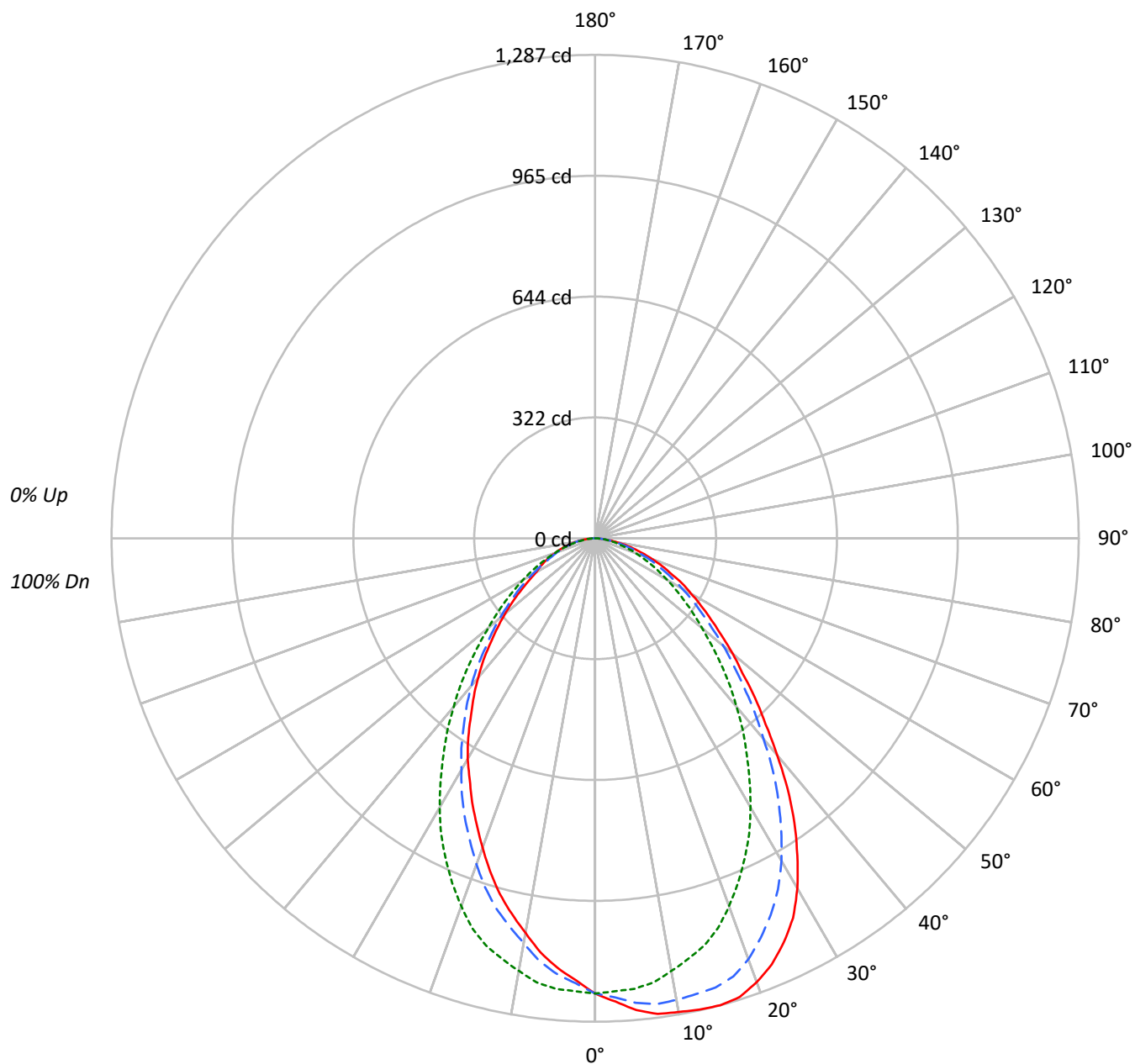
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593194

CATALOG NUMBER: HC625D010-HM60525950-61WWW

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°	66437	66437	66437
5°	69387	66245	63185
10°	71275	65107	59384
15°	73042	63689	55636
20°	73366	60800	51093
25°	71829	56925	46860
30°	68150	52350	42950
35°	61890	47054	38534
40°	53930	41900	34665
45°	46664	36670	30476
50°	40758	31581	26703
55°	36013	27746	22919
60°	32366	24318	19856
65°	28978	21157	19263
70°	25886	18032	18032
75°	22452	15208	16924
80°	18026	12849	15469
85°	12265	11259	13335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	5.0
10°-20°	316.6	14.0
20°-30°	441.2	19.5
30°-40°	454.6	20.1
40°-50°	376.8	16.7
50°-60°	270.8	12.0
60°-70°	172.4	7.6
70°-80°	88.6	3.9
80°-90°	22.5	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°	871.8	38.6
0°-40°	1326.4	58.8
0°-60°	1974.0	87.4
0°-90°	2257.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1212	1212	1212	1212	1212	
5°	1261	1241	1204	1165	1148	121
15°	1287	1238	1122	1019	980	363
25°	1188	1106	941	820	775	544
35°	925	850	703	610	576	574
45°	602	560	473	413	393	466
55°	377	346	290	258	240	339
65°	223	199	163	142	148	224
75°	106	91	72	75	80	113
85°	20	18	18	20	21	25
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°	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9
2.5°	1234.7	1229.8	1223.3	1216.8	1207.0	1195.6	1185.8	1182.6	1177.7
5°	1260.9	1254.4	1241.2	1224.9	1203.8	1182.6	1164.7	1153.1	1148.2
7.5°	1277.2	1269.0	1251.1	1223.3	1192.4	1161.4	1135.2	1118.9	1112.4
10°	1280.4	1272.3	1247.7	1210.3	1169.6	1127.1	1094.5	1074.9	1066.8
12.5°	1285.3	1273.9	1242.9	1198.9	1146.6	1097.8	1056.9	1032.5	1024.3
15°	1287.0	1273.9	1238.0	1184.2	1122.2	1063.4	1019.4	990.1	980.3
17.5°	1280.4	1265.8	1223.3	1158.1	1088.0	1026.0	973.8	942.8	929.7
20°	1257.6	1241.2	1192.4	1118.9	1042.2	977.1	923.2	890.6	875.8
22.5°	1228.2	1207.0	1151.5	1073.3	993.4	924.8	871.0	838.4	823.7
25°	1187.5	1167.9	1105.9	1022.7	941.1	869.3	820.5	786.1	774.7
27.5°	1140.1	1117.3	1053.6	970.4	887.4	815.6	768.2	737.3	722.6
30°	1076.6	1055.3	991.7	908.6	827.0	760.1	711.2	685.0	678.5
32.5°	1001.5	983.6	921.6	843.3	765.0	703.1	662.2	634.5	628.0
35°	924.8	903.7	849.8	776.4	703.1	647.6	610.1	585.5	575.8
37.5°	841.6	822.1	776.4	711.2	645.9	593.7	561.1	539.9	530.1
40°	753.6	738.9	696.5	644.3	585.5	539.9	512.2	494.2	484.4
42.5°	672.0	657.3	628.0	579.0	530.1	489.3	464.9	448.6	440.4
45°	601.9	588.8	559.5	517.1	473.0	438.8	412.6	401.2	393.1
47.5°	531.8	525.3	499.1	460.0	419.3	389.8	371.9	358.9	352.3
50°	477.9	469.7	445.3	404.5	370.3	347.5	331.2	319.6	313.1
52.5°	422.5	414.2	391.4	357.2	329.5	308.2	291.9	282.2	275.7
55°	376.8	370.3	345.8	314.8	290.3	272.4	257.7	246.3	239.8
57.5°	334.4	327.9	305.0	275.7	254.5	238.2	225.0	215.3	207.1
60°	295.2	290.3	267.5	239.8	221.8	205.5	194.1	185.9	181.1
62.5°	261.0	251.2	231.7	207.1	190.8	177.8	166.4	161.5	164.8
65°	223.4	218.5	199.0	177.8	163.1	150.1	142.0	145.2	148.5
67.5°	192.5	185.9	169.7	150.1	137.0	127.2	122.3	128.8	130.4
70°	161.5	155.0	140.3	123.9	112.5	106.0	106.0	110.9	112.5
72.5°	132.1	127.2	114.1	101.1	93.0	88.1	91.3	94.6	96.2
75°	106.0	101.1	91.3	79.9	71.8	71.8	75.1	78.3	79.9
77.5°	81.6	78.3	68.5	60.4	57.1	57.1	60.4	62.0	63.7
80°	57.1	53.9	49.0	44.0	40.7	44.0	47.4	47.4	49.0
82.5°	37.5	35.8	32.6	29.3	29.3	30.9	32.6	34.2	34.2
85°	19.5	19.5	17.9	16.3	17.9	19.5	19.5	21.2	21.2
87.5°	6.5	6.5	6.5	6.5	8.1	8.1	8.1	8.1	8.1
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)