

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: P582099

Luminaire Tested: **HC625D010-HM60525935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582099
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-HM60525935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2408.4 lumens
Efficiency: N/A
Efficacy: 89.9 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

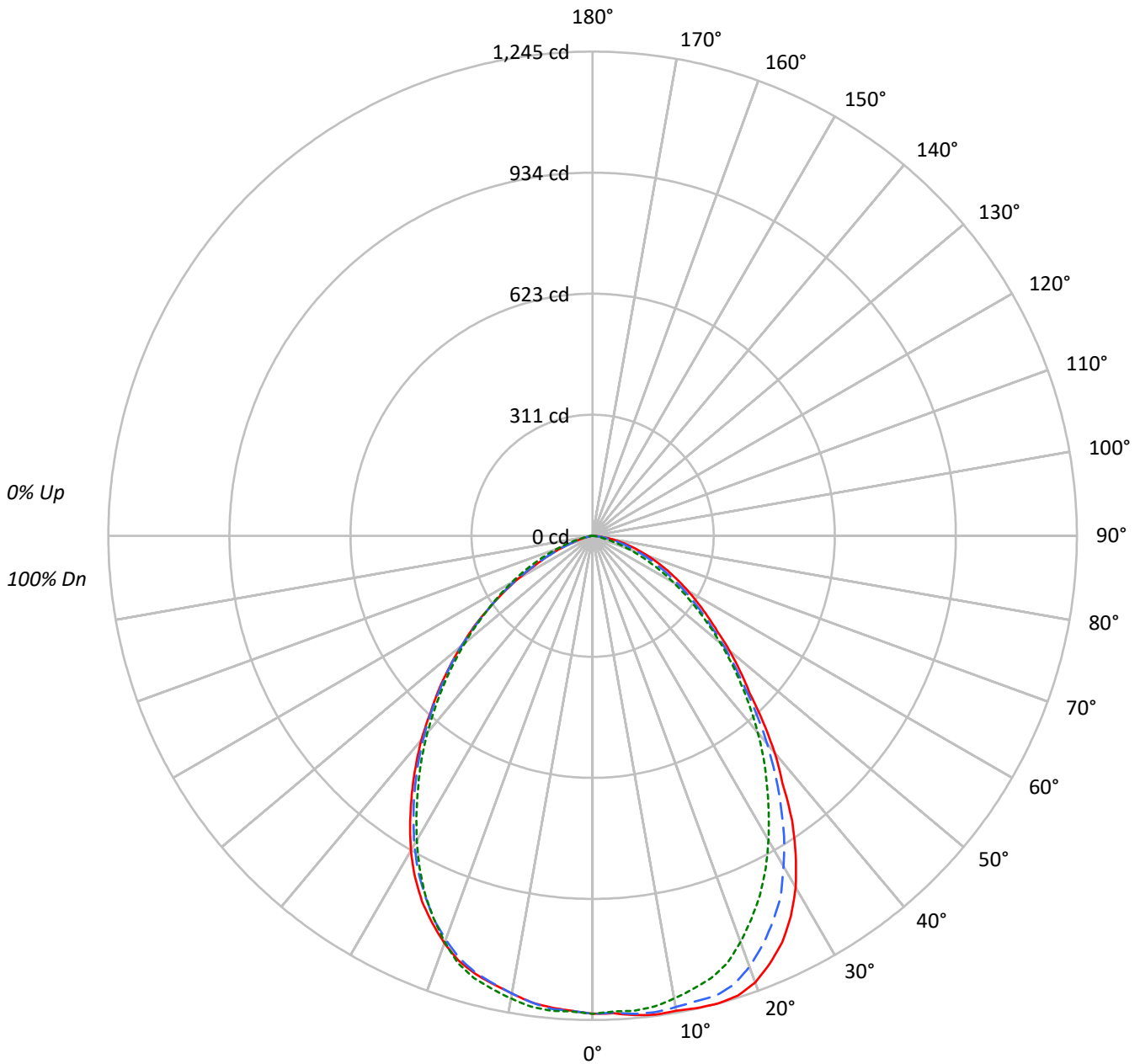
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	67379	67379	67379
5°	68083	67461	67015
10°	69042	67250	66532
15°	70670	66834	66192
20°	71330	64843	65036
25°	69766	61582	62750
30°	66080	57205	59148
35°	59829	52280	54228
40°	52105	47267	48992
45°	44206	41842	43338
50°	39154	36545	37508
55°	34493	31253	31100
60°	30908	26325	24198
65°	27578	21092	17343
70°	24267	15243	10851
75°	20461	9214	6121
80°	15785	4072	2526
85°	9120	1006	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	4.8
10°-20°	335.3	13.9
20°-30°	484.7	20.1
30°-40°	510.0	21.2
40°-50°	428.8	17.8
50°-60°	300.9	12.5
60°-70°	165.5	6.9
70°-80°	58.8	2.4
80°-90°	7.7	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°	936.7	38.9
0°-40°	1446.7	60.1
0°-60°	2176.4	90.4
0°-90°	2408.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1229	1229	1229	1229	1229	
5°	1237	1234	1226	1221	1218	118
15°	1245	1224	1178	1163	1166	351
25°	1153	1095	1018	1020	1037	528
35°	894	842	781	797	810	554
45°	570	554	540	553	559	447
55°	361	342	327	327	325	325
65°	213	190	163	134	134	212
75°	97	77	44	29	29	104
85°	14	8	2	2	2	20
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°	1229.1	1229.1	1229.1	1229.1	1229.1	1229.1	1229.1	1229.1	1229.1
2.5°	1229.1	1229.1	1227.4	1227.4	1224.3	1224.3	1222.7	1222.7	1222.7
5°	1237.2	1237.2	1234.0	1229.1	1225.9	1221.0	1221.0	1219.4	1217.8
7.5°	1242.0	1240.3	1235.6	1229.1	1221.0	1213.0	1209.8	1211.4	1209.8
10°	1240.3	1237.2	1230.7	1217.8	1208.1	1196.9	1195.2	1193.7	1195.2
12.5°	1243.6	1238.7	1225.9	1209.8	1193.7	1180.8	1179.2	1179.2	1180.8
15°	1245.2	1240.3	1224.3	1200.1	1177.6	1164.7	1163.0	1164.7	1166.3
17.5°	1240.3	1234.0	1209.8	1177.6	1151.8	1138.9	1138.9	1142.1	1145.4
20°	1222.7	1213.0	1179.2	1140.5	1111.5	1101.9	1105.0	1111.5	1114.8
22.5°	1190.5	1179.2	1140.5	1097.0	1066.4	1058.4	1066.4	1074.4	1077.7
25°	1153.4	1140.5	1095.4	1050.3	1018.1	1008.4	1019.7	1032.6	1037.4
27.5°	1103.5	1089.0	1047.1	995.5	963.3	958.4	971.3	985.9	989.1
30°	1043.9	1027.7	981.0	932.7	903.7	902.2	916.6	929.5	934.4
32.5°	971.3	956.9	916.6	868.3	842.5	842.5	857.1	868.3	873.1
35°	894.0	878.0	842.5	802.2	781.2	782.9	797.4	805.4	810.3
37.5°	802.2	797.4	770.0	736.1	721.7	724.9	736.1	742.7	747.4
40°	728.1	715.2	697.5	670.1	660.5	663.7	675.0	681.4	684.6
42.5°	647.6	639.5	625.0	605.7	599.3	604.1	613.7	618.6	617.0
45°	570.2	568.6	554.2	542.9	539.7	546.1	552.6	557.3	559.0
47.5°	513.9	507.5	494.6	486.5	483.3	489.7	496.2	499.3	499.3
50°	459.1	452.7	439.8	431.7	428.5	434.9	439.8	442.9	439.8
52.5°	404.3	398.0	386.7	376.9	375.4	378.5	380.2	381.8	385.0
55°	360.9	354.3	341.6	330.3	327.0	328.7	327.0	327.0	325.4
57.5°	319.0	312.5	299.6	286.7	281.9	280.3	275.4	273.9	272.3
60°	281.9	273.9	261.0	246.5	240.1	233.6	225.5	220.7	220.7
62.5°	246.5	238.4	223.9	211.0	201.4	190.1	177.2	170.8	170.8
65°	212.6	206.2	190.1	175.5	162.6	148.2	133.7	130.4	133.7
67.5°	180.4	173.9	157.9	143.3	127.3	109.5	96.6	96.6	99.9
70°	151.4	145.0	130.4	112.8	95.1	77.3	67.7	67.7	67.7
72.5°	124.0	117.7	101.5	85.3	67.7	50.0	45.1	46.7	45.1
75°	96.6	91.8	77.3	59.6	43.5	30.6	28.9	27.4	28.9
77.5°	72.5	67.7	54.8	38.7	24.2	17.7	16.2	16.2	16.2
80°	50.0	45.1	35.5	22.6	12.9	8.0	8.0	8.0	8.0
82.5°	30.6	25.8	19.3	11.3	4.9	4.9	4.9	4.9	4.9
85°	14.5	11.3	8.0	3.3	1.6	1.6	1.6	1.6	1.6
87.5°	3.3	3.3	1.6	1.6	0.0	1.6	1.6	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)