

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: P582123

Luminaire Tested: **HC625D010-HM60525940-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2066.7 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

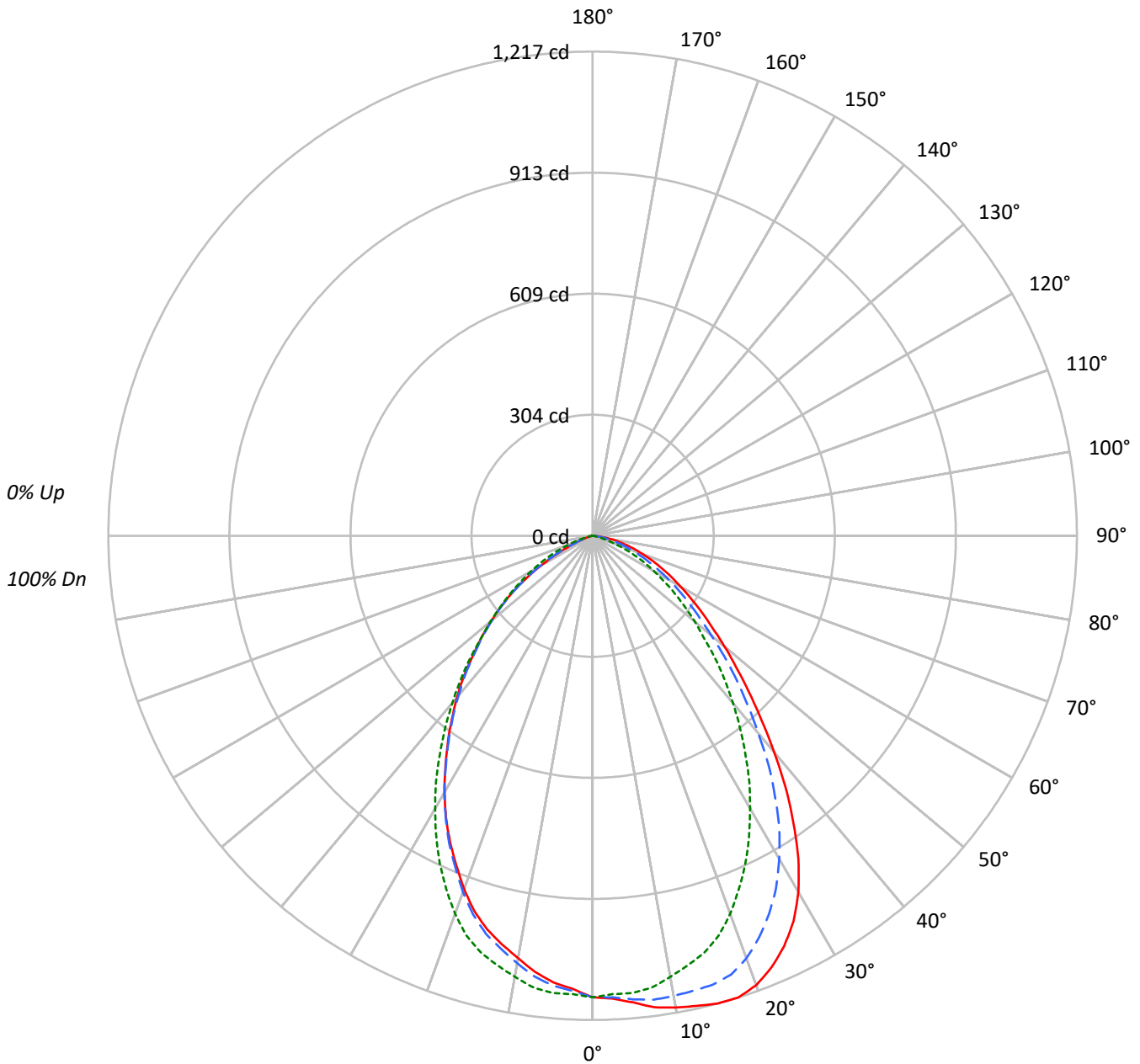
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	63580	63580	63580
5°	64808	63466	62024
10°	67011	62646	60019
15°	69058	61561	58133
20°	70129	58998	55095
25°	68865	54959	51305
30°	65459	50077	47083
35°	58839	44751	42463
40°	50781	39223	37935
45°	42997	33763	32879
50°	36869	28519	28246
55°	31961	24009	23082
60°	27903	19494	16457
65°	24542	15021	9106
70°	21173	9938	4440
75°	17961	4829	1716
80°	13891	2052	1042
85°	8177	1006	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	5.3
10°-20°	309.5	15.0
20°-30°	435.8	21.1
30°-40°	445.3	21.5
40°-50°	359.0	17.4
50°-60°	240.8	11.7
60°-70°	121.9	5.9
70°-80°	39.0	1.9
80°-90°	6.0	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°	854.7	41.4
0°-40°	1300.0	62.9
0°-60°	1899.9	91.9
0°-90°	2066.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2066.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1160	1160	1160	1160	1160	
5°	1178	1170	1153	1135	1127	113
15°	1217	1168	1085	1036	1024	344
25°	1138	1049	909	853	848	521
35°	879	799	669	631	634	547
45°	555	511	436	421	424	431
55°	334	297	251	240	242	301
65°	189	157	116	77	70	189
75°	85	60	23	8	8	91
85°	13	6	2	2	2	18
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°	1159.8	1159.8	1159.8	1159.8	1159.8	1159.8	1159.8	1159.8	1159.8
2.5°	1164.7	1163.0	1161.4	1158.1	1153.3	1148.4	1145.0	1141.7	1140.1
5°	1177.7	1174.4	1169.6	1163.0	1153.3	1141.7	1135.2	1128.7	1127.1
7.5°	1195.6	1189.1	1176.1	1161.4	1145.0	1128.7	1117.3	1110.8	1105.9
10°	1203.8	1192.4	1174.4	1150.0	1125.4	1105.9	1091.2	1081.5	1078.2
12.5°	1210.3	1197.2	1171.2	1138.5	1105.9	1079.8	1063.5	1055.4	1052.0
15°	1216.8	1203.8	1167.9	1125.4	1084.7	1053.6	1035.7	1027.6	1024.3
17.5°	1216.8	1198.9	1156.5	1102.6	1053.6	1016.2	998.3	990.1	988.5
20°	1202.1	1182.6	1130.3	1066.8	1011.3	968.9	952.5	947.6	944.4
22.5°	1174.4	1151.6	1092.9	1021.1	960.7	920.0	902.0	898.8	895.5
25°	1138.5	1115.7	1048.8	972.2	908.6	867.7	853.0	849.8	848.2
27.5°	1092.9	1068.4	998.3	920.0	851.4	812.3	799.3	799.3	797.7
30°	1034.1	1006.4	937.9	859.6	791.1	755.2	745.4	745.4	743.8
32.5°	962.3	934.6	872.7	797.7	732.4	694.9	686.6	690.0	688.4
35°	879.2	856.3	799.3	725.9	668.7	634.5	631.3	634.5	634.5
37.5°	796.0	774.7	725.9	662.2	608.5	577.4	577.4	582.3	580.6
40°	709.6	693.3	647.6	592.0	548.1	526.9	523.6	528.5	530.1
42.5°	628.0	615.0	575.8	530.1	490.9	469.7	474.6	477.9	479.5
45°	554.6	541.5	510.6	463.2	435.5	420.9	420.9	425.8	424.1
47.5°	489.3	479.5	448.6	402.8	378.4	371.9	375.1	378.4	378.4
50°	432.3	417.6	388.2	352.3	334.4	326.3	329.5	331.2	331.2
52.5°	378.4	368.6	339.3	306.6	290.3	285.4	285.4	287.1	287.1
55°	334.4	323.0	296.8	264.3	251.2	244.7	239.8	238.2	241.5
57.5°	291.9	282.2	257.7	226.7	212.0	205.5	195.7	192.5	195.7
60°	254.5	246.3	221.8	192.5	177.8	164.8	153.4	146.9	150.1
62.5°	221.8	212.0	187.6	163.1	146.9	132.1	114.1	104.4	109.3
65°	189.2	181.1	156.6	132.1	115.8	97.9	76.7	70.2	70.2
67.5°	159.9	151.7	128.8	107.6	88.1	66.9	47.4	45.6	47.4
70°	132.1	123.9	104.4	83.2	62.0	40.7	27.7	27.7	27.7
72.5°	109.3	99.5	81.6	60.4	39.1	21.2	14.7	16.3	16.3
75°	84.8	76.7	60.4	40.7	22.8	9.8	8.1	8.1	8.1
77.5°	63.7	57.1	42.4	26.1	11.4	3.3	3.3	3.3	3.3
80°	44.0	37.5	27.7	16.3	6.5	3.3	3.3	3.3	3.3
82.5°	26.1	22.8	16.3	8.1	3.3	1.6	1.6	1.6	1.6
85°	13.0	11.4	6.5	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)