

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: P582089

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2192.9 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

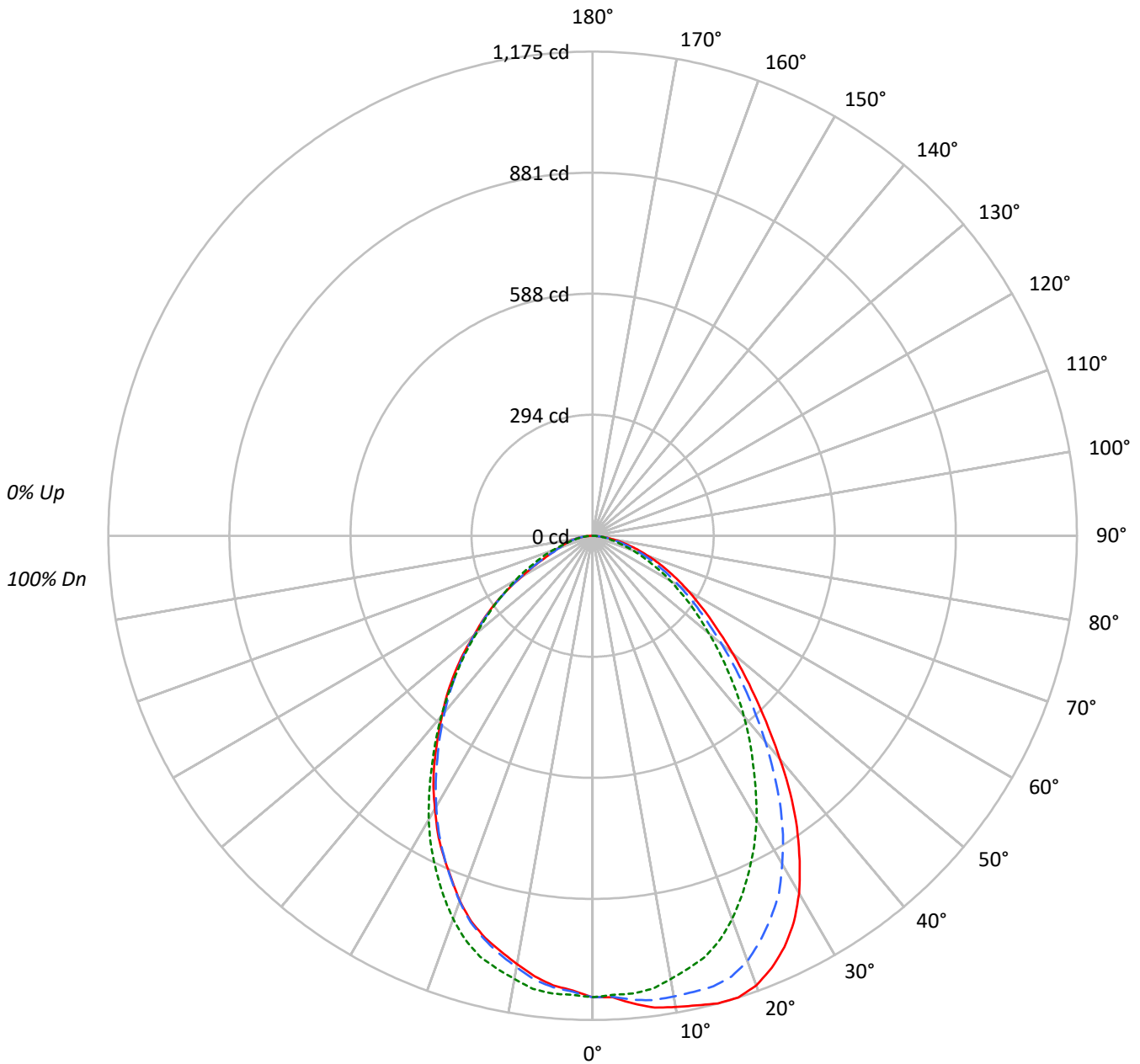
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52			52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46			46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42			42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38			38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34			34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	61388	61388	61388
5°	62712	61369	60268
10°	64628	60798	58755
15°	66675	59989	57305
20°	67731	57738	54972
25°	66621	54312	51820
30°	63427	50350	48413
35°	57842	45461	44738
40°	50573	40834	40612
45°	43516	35934	36771
50°	37832	31308	31965
55°	33041	27488	27784
60°	29340	23825	21807
65°	26203	20041	16681
70°	23049	16429	13977
75°	19762	12942	13302
80°	15943	11113	13038
85°	10567	9624	11573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	4.8
10°-20°	301.8	13.8
20°-30°	430.8	19.6
30°-40°	451.3	20.6
40°-50°	380.0	17.3
50°-60°	270.4	12.3
60°-70°	158.3	7.2
70°-80°	74.9	3.4
80°-90°	19.3	0.9
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°	838.7	38.2
0°-40°	1290.0	58.8
0°-60°	1940.4	88.5
0°-90°	2192.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2192.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1120	1120	1120	1120	1120	
5°	1140	1130	1115	1100	1095	109
15°	1175	1132	1057	1014	1010	332
25°	1101	1023	898	855	857	504
35°	864	792	679	656	668	537
45°	561	520	464	465	474	436
55°	346	317	288	288	291	312
65°	202	179	154	130	129	201
75°	93	78	61	60	63	100
85°	17	14	15	18	18	22
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°	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8
2.5°	1121.3	1121.3	1119.8	1118.2	1115.2	1110.5	1107.5	1104.4	1104.4
5°	1139.6	1136.6	1130.5	1122.8	1115.2	1106.0	1099.9	1095.2	1095.2
7.5°	1154.9	1148.9	1136.6	1122.8	1109.0	1096.8	1086.1	1080.0	1078.5
10°	1161.0	1153.4	1135.1	1113.7	1092.2	1075.4	1063.2	1055.5	1055.5
12.5°	1167.2	1158.0	1133.5	1102.9	1075.4	1052.4	1040.2	1034.1	1032.6
15°	1174.8	1162.5	1132.0	1093.7	1057.0	1031.0	1014.2	1009.7	1009.7
17.5°	1174.8	1159.5	1121.3	1073.8	1028.0	998.9	983.6	979.0	980.6
20°	1161.0	1144.2	1098.4	1040.2	989.7	959.2	943.9	940.8	942.3
22.5°	1135.1	1115.2	1063.2	1000.4	945.4	913.2	899.5	899.5	897.9
25°	1101.4	1080.0	1023.3	957.5	897.9	865.8	855.2	856.7	856.7
27.5°	1057.0	1035.6	979.0	908.7	849.0	816.8	809.2	812.3	813.8
30°	1002.0	979.0	919.3	850.5	795.4	763.3	758.7	763.3	764.8
32.5°	934.6	917.8	859.7	789.4	737.3	709.8	708.3	712.8	719.0
35°	864.3	845.9	792.4	728.1	679.3	656.2	656.2	663.8	668.5
37.5°	787.8	769.5	720.5	667.0	625.6	604.2	607.3	615.0	616.5
40°	706.7	692.9	651.7	605.8	570.6	553.7	558.3	566.0	567.5
42.5°	630.3	618.0	584.4	543.1	517.0	504.8	511.0	520.1	523.1
45°	561.3	547.7	520.1	484.9	463.5	457.3	465.0	471.1	474.3
47.5°	498.7	486.4	463.5	431.4	416.1	413.0	420.6	423.8	426.8
50°	443.6	431.4	408.5	379.4	367.1	367.1	373.3	376.3	374.8
52.5°	390.1	379.4	358.0	333.4	325.8	325.8	330.4	331.9	335.1
55°	345.7	335.1	316.6	293.7	287.6	284.6	287.6	287.6	290.7
57.5°	304.4	295.2	278.4	257.0	249.3	246.3	244.7	243.2	246.3
60°	267.6	260.0	241.7	223.3	217.3	209.6	203.5	197.3	198.9
62.5°	234.1	226.4	209.6	191.2	185.1	174.4	166.8	159.1	162.1
65°	202.0	194.2	178.9	163.6	154.5	142.2	130.1	125.4	128.6
67.5°	172.9	166.8	151.5	136.2	128.6	114.8	102.5	102.5	104.0
70°	143.8	137.7	125.4	111.6	102.5	90.2	85.7	87.2	87.2
72.5°	117.8	113.1	101.0	88.7	79.6	71.9	71.9	73.4	74.9
75°	93.3	90.2	78.1	67.3	61.1	56.6	59.6	61.1	62.8
77.5°	71.9	67.3	58.1	50.5	45.9	47.4	50.5	52.0	53.5
80°	50.5	49.0	41.3	36.7	35.2	36.7	39.7	41.3	41.3
82.5°	32.1	30.6	26.1	24.4	24.4	26.1	29.1	29.1	29.1
85°	16.8	15.3	13.8	13.8	15.3	16.8	18.4	18.4	18.4
87.5°	6.1	4.6	6.1	6.1	7.6	7.6	7.6	7.6	7.6
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)