

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: P581990

Luminaire Tested: **HC625D010-HM60525827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2473.1 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

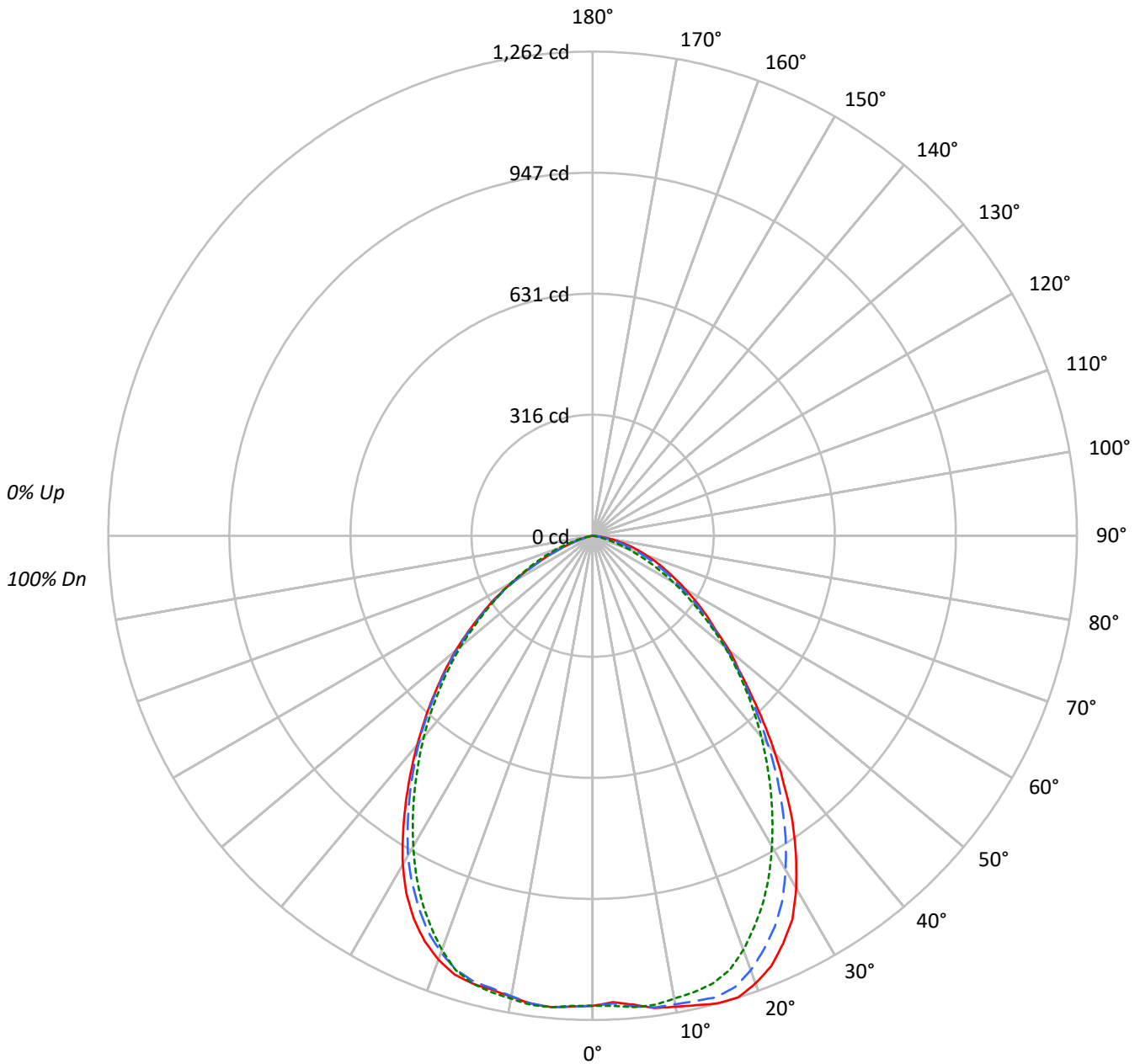
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			
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	62	55	50	60	54	49	58	53	49	47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	67160	67160	67160
5°	67505	67868	67868
10°	69393	68196	67912
15°	71595	68582	68582
20°	72433	67007	68559
25°	70988	63657	66663
30°	67143	59155	62630
35°	60759	54101	56764
40°	52856	48942	50845
45°	45167	43625	45167
50°	39632	38225	39785
55°	34589	32200	33471
60°	30579	26752	26390
65°	27124	21092	18095
70°	23946	14906	10899
75°	20376	8430	5274
80°	15185	2620	1578
85°	8366	1006	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	4.8
10°-20°	343.8	13.9
20°-30°	502.1	20.3
30°-40°	526.6	21.3
40°-50°	443.6	17.9
50°-60°	310.8	12.6
60°-70°	166.6	6.7
70°-80°	55.9	2.3
80°-90°	6.1	0.2
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°	963.4	39.0
0°-40°	1490.0	60.2
0°-60°	2244.5	90.8
0°-90°	2473.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2473.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1225	1225	1225	1225	1225	
5°	1227	1232	1233	1233	1233	118
15°	1262	1245	1208	1202	1208	356
25°	1174	1124	1052	1071	1102	538
35°	908	861	808	832	848	564
45°	583	573	563	578	583	454
55°	362	350	337	344	350	326
65°	209	191	163	134	140	209
75°	96	75	40	25	25	102
85°	13	7	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°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1216.7	1216.7	1220.0	1223.3	1226.7	1226.7	1228.3	1229.9	1228.3
5°	1226.7	1226.7	1231.7	1233.3	1233.3	1231.7	1233.3	1233.3	1233.3
7.5°	1241.6	1238.3	1240.0	1236.6	1233.3	1231.7	1229.9	1229.9	1229.9
10°	1246.6	1243.2	1240.0	1233.3	1225.1	1220.0	1218.4	1220.0	1220.0
12.5°	1253.3	1249.9	1241.6	1228.3	1218.4	1210.0	1208.4	1211.8	1211.8
15°	1261.5	1258.3	1245.0	1223.3	1208.4	1200.1	1201.8	1205.1	1208.4
17.5°	1261.5	1254.9	1233.3	1205.1	1186.8	1178.6	1185.2	1193.5	1198.5
20°	1241.6	1235.0	1205.1	1170.2	1148.6	1143.7	1155.3	1170.2	1175.2
22.5°	1215.0	1201.8	1166.9	1125.4	1102.1	1102.1	1118.8	1137.1	1143.7
25°	1173.6	1163.5	1123.8	1075.6	1052.4	1050.8	1070.7	1095.5	1102.1
27.5°	1127.1	1113.8	1070.7	1020.8	995.9	997.6	1019.2	1044.1	1050.8
30°	1060.7	1044.1	1005.9	957.8	934.5	941.1	962.8	981.0	989.4
32.5°	986.0	971.1	936.2	891.4	871.5	878.1	896.4	912.9	919.6
35°	907.9	891.4	861.4	821.7	808.4	815.1	831.6	844.9	848.2
37.5°	820.0	808.4	786.8	755.3	745.3	753.6	766.8	775.2	778.5
40°	738.6	728.7	710.5	687.1	683.9	690.5	703.8	708.8	710.5
42.5°	659.0	650.7	639.0	622.5	622.5	629.1	640.8	644.0	645.7
45°	582.6	577.6	572.6	559.3	562.7	571.0	577.6	582.6	582.6
47.5°	516.2	517.9	511.2	501.3	504.6	512.9	517.9	522.9	522.9
50°	464.7	459.9	453.2	443.2	448.2	454.8	461.5	464.7	466.5
52.5°	405.0	403.3	398.3	386.8	390.1	393.4	400.1	405.0	406.7
55°	361.9	356.9	350.2	336.9	336.9	340.3	343.6	347.0	350.2
57.5°	320.4	315.4	305.5	290.4	288.8	288.8	287.2	290.4	295.5
60°	278.9	277.2	262.3	249.0	244.0	239.1	232.4	234.1	240.7
62.5°	242.3	239.1	225.8	209.1	199.2	190.8	182.6	180.9	187.6
65°	209.1	205.9	190.8	174.3	162.6	147.7	134.4	134.4	139.5
67.5°	179.3	172.7	159.4	141.1	126.2	107.9	94.6	98.0	99.6
70°	149.4	144.5	129.4	111.3	93.0	74.7	66.4	68.0	68.0
72.5°	122.8	116.2	101.2	82.9	64.8	48.1	44.9	43.1	43.1
75°	96.2	89.6	74.7	56.4	39.8	28.2	24.9	24.9	24.9
77.5°	69.7	64.8	51.5	34.8	21.6	13.3	11.7	9.9	9.9
80°	48.1	43.1	31.6	18.3	8.3	5.0	5.0	5.0	5.0
82.5°	28.2	23.2	14.9	8.3	3.3	1.6	1.6	1.6	1.6
85°	13.3	9.9	6.6	3.3	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	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)