

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: P582098

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582098
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-HM60525935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2400.3 lumens
Efficiency: N/A
Efficacy: 89.6 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

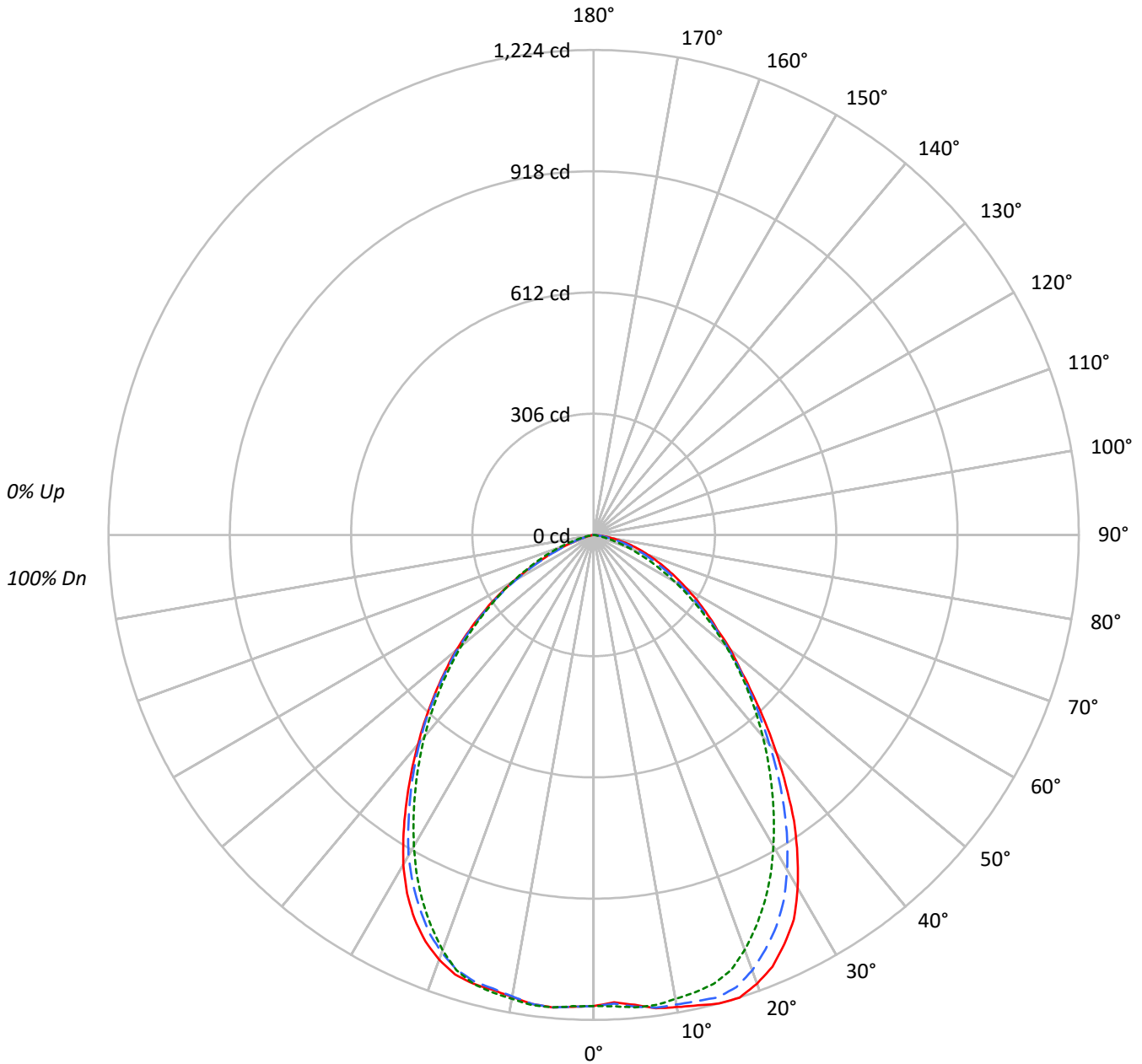
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	65181	65181	65181
5°	65518	65870	65870
10°	67350	66187	65914
15°	69490	66561	66561
20°	70298	65036	66541
25°	68895	61782	64703
30°	65168	57414	60782
35°	58973	52508	55091
40°	51310	47496	49342
45°	43842	42345	43842
50°	38472	37099	38609
55°	33566	31253	32486
60°	29669	25963	25612
65°	26332	20482	17551
70°	23241	14458	10579
75°	19804	8197	5126
80°	14743	2526	1547
85°	8114	1006	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	4.8
10°-20°	333.7	13.9
20°-30°	487.3	20.3
30°-40°	511.1	21.3
40°-50°	430.6	17.9
50°-60°	301.7	12.6
60°-70°	161.7	6.7
70°-80°	54.2	2.3
80°-90°	5.9	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°	935.1	39.0
0°-40°	1446.2	60.2
0°-60°	2178.5	90.8
0°-90°	2400.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1189	1189	1189	1189	1189	
5°	1191	1195	1197	1197	1197	114
15°	1224	1208	1173	1166	1173	345
25°	1139	1091	1021	1039	1070	522
35°	881	836	785	807	823	547
45°	566	556	546	561	566	441
55°	351	340	327	334	340	316
65°	203	185	158	130	135	203
75°	94	72	39	24	24	99
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°	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1181.0	1181.0	1184.1	1187.3	1190.6	1190.6	1192.2	1193.7	1192.2
5°	1190.6	1190.6	1195.4	1197.0	1197.0	1195.4	1197.0	1197.0	1197.0
7.5°	1205.0	1201.9	1203.5	1200.2	1197.0	1195.4	1193.7	1193.7	1193.7
10°	1209.9	1206.6	1203.5	1197.0	1189.0	1184.1	1182.5	1184.1	1184.1
12.5°	1216.3	1213.2	1205.0	1192.2	1182.5	1174.4	1172.8	1176.1	1176.1
15°	1224.4	1221.2	1208.3	1187.3	1172.8	1164.8	1166.4	1169.7	1172.8
17.5°	1224.4	1217.9	1197.0	1169.7	1151.9	1143.9	1150.3	1158.4	1163.2
20°	1205.0	1198.6	1169.7	1135.8	1114.8	1110.0	1121.3	1135.8	1140.6
22.5°	1179.3	1166.4	1132.6	1092.2	1069.7	1069.7	1085.8	1103.5	1110.0
25°	1139.0	1129.3	1090.7	1044.0	1021.4	1019.8	1039.1	1063.3	1069.7
27.5°	1093.9	1081.0	1039.1	990.7	966.7	968.2	989.2	1013.3	1019.8
30°	1029.5	1013.3	976.3	929.6	907.0	913.4	934.4	952.2	960.2
32.5°	956.9	942.5	908.7	865.2	845.8	852.3	870.0	886.1	892.5
35°	881.2	865.2	836.1	797.5	784.6	791.0	807.2	820.1	823.2
37.5°	795.9	784.6	763.7	733.0	723.4	731.4	744.3	752.4	755.6
40°	717.0	707.2	689.5	667.0	663.7	670.2	683.1	687.9	689.5
42.5°	639.5	631.5	620.2	604.2	604.2	610.6	621.9	625.1	626.8
45°	565.5	560.6	555.8	542.9	546.2	554.2	560.6	565.5	565.5
47.5°	501.1	502.7	496.2	486.5	489.8	497.8	502.7	507.5	507.5
50°	451.1	446.3	439.8	430.2	435.0	441.4	447.8	451.1	452.7
52.5°	393.1	391.4	386.7	375.4	378.7	381.8	388.3	393.1	394.7
55°	351.2	346.3	339.9	327.0	327.0	330.3	333.5	336.7	339.9
57.5°	311.0	306.1	296.5	281.9	280.3	280.3	278.7	281.9	286.8
60°	270.6	269.0	254.6	241.7	236.8	231.9	225.5	227.2	233.6
62.5°	235.2	231.9	219.1	203.0	193.3	185.3	177.2	175.5	182.1
65°	203.0	199.7	185.3	169.2	157.9	143.3	130.4	130.4	135.3
67.5°	174.0	167.5	154.6	137.0	122.4	104.8	91.8	95.1	96.6
70°	145.0	140.2	125.7	107.9	90.2	72.5	64.4	66.0	66.0
72.5°	119.2	112.8	98.2	80.6	62.8	46.7	43.5	41.9	41.9
75°	93.5	87.0	72.5	54.8	38.7	27.4	24.2	24.2	24.2
77.5°	67.7	62.8	50.0	33.8	20.9	12.9	11.3	9.6	9.6
80°	46.7	41.9	30.6	17.7	8.0	4.9	4.9	4.9	4.9
82.5°	27.4	22.6	14.5	8.0	3.3	1.6	1.6	1.6	1.6
85°	12.9	9.6	6.4	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)