

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: P582116

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582116
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-HM60525940-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2430.4 lumens
Efficiency: N/A
Efficacy: 90.7 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

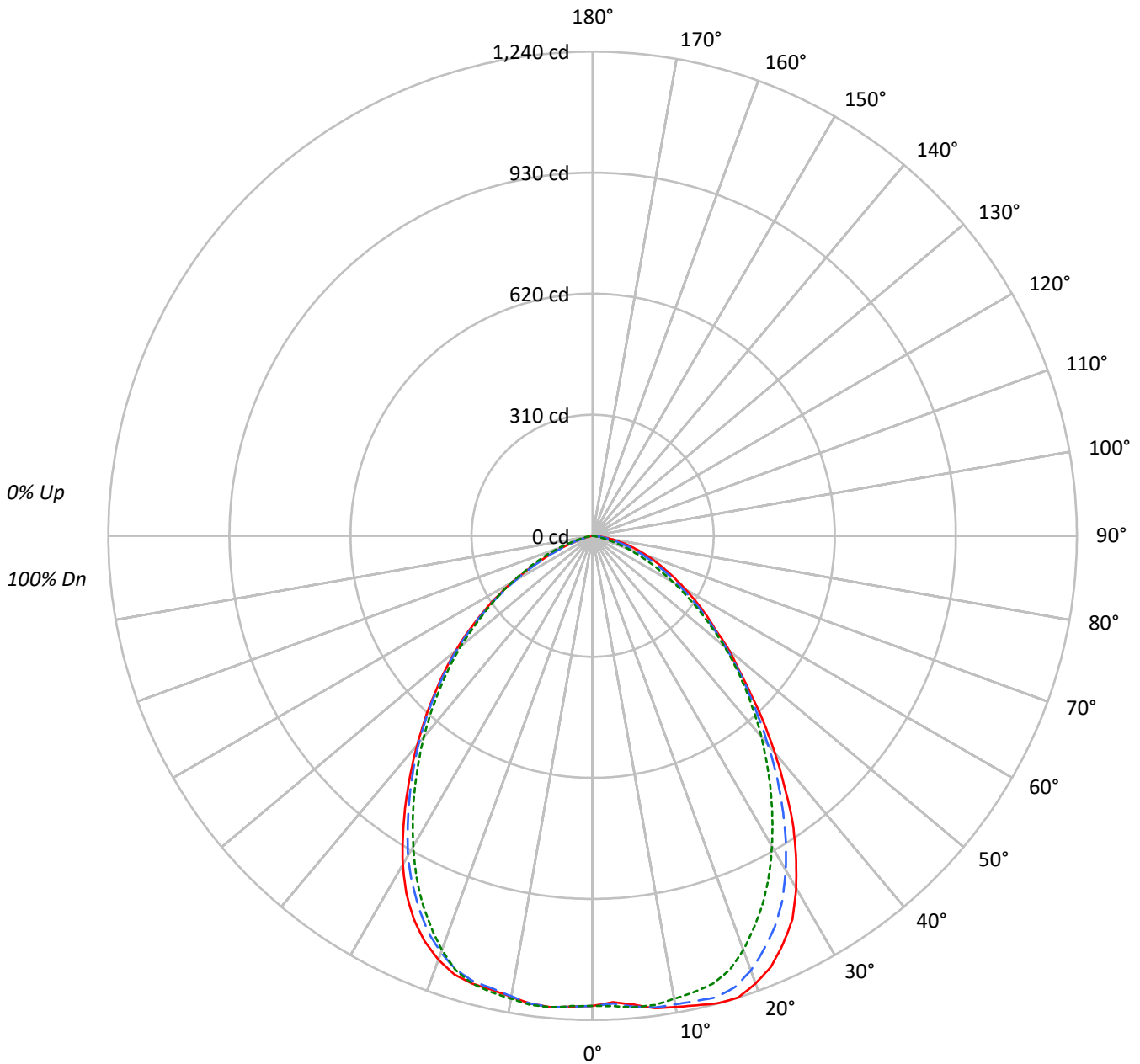
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	65998	65998	65998
5°	66338	66696	66696
10°	68196	67016	66743
15°	70358	67401	67401
20°	71185	65852	67375
25°	69760	62556	65514
30°	65985	58129	61541
35°	59715	53164	55787
40°	51947	48097	49965
45°	44392	42865	44392
50°	38950	37560	39086
55°	33987	31655	32897
60°	30041	26292	25941
65°	26657	20742	17784
70°	23546	14634	10723
75°	20037	8282	5168
80°	14964	2557	1547
85°	8177	1006	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	4.8
10°-20°	337.9	13.9
20°-30°	493.5	20.3
30°-40°	517.5	21.3
40°-50°	436.0	17.9
50°-60°	305.5	12.6
60°-70°	163.8	6.7
70°-80°	54.9	2.3
80°-90°	6.0	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°	946.8	39.0
0°-40°	1464.3	60.2
0°-60°	2205.7	90.8
0°-90°	2430.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1204	1204	1204	1204	1204	
5°	1206	1210	1212	1212	1212	116
15°	1240	1223	1188	1181	1188	350
25°	1153	1104	1034	1052	1083	528
35°	892	847	794	817	834	554
45°	573	563	553	568	573	446
55°	356	344	331	338	344	320
65°	206	188	160	132	137	205
75°	95	73	39	24	24	100
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°	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9	1203.9
2.5°	1195.7	1195.7	1199.0	1202.3	1205.5	1205.5	1207.1	1208.8	1207.1
5°	1205.5	1205.5	1210.4	1212.0	1212.0	1210.4	1212.0	1212.0	1212.0
7.5°	1220.2	1216.9	1218.5	1215.3	1212.0	1210.4	1208.8	1208.8	1208.8
10°	1225.1	1221.8	1218.5	1212.0	1203.9	1199.0	1197.4	1199.0	1199.0
12.5°	1231.6	1228.3	1220.2	1207.1	1197.4	1189.2	1187.6	1190.9	1190.9
15°	1239.7	1236.5	1223.4	1202.3	1187.6	1179.3	1181.0	1184.3	1187.6
17.5°	1239.7	1233.2	1212.0	1184.3	1166.3	1158.1	1164.7	1172.8	1177.7
20°	1220.2	1213.7	1184.3	1150.0	1128.8	1123.9	1135.3	1150.0	1154.9
22.5°	1194.1	1181.0	1146.7	1106.0	1083.1	1083.1	1099.5	1117.4	1123.9
25°	1153.3	1143.5	1104.4	1057.0	1034.2	1032.6	1052.1	1076.6	1083.1
27.5°	1107.7	1094.6	1052.1	1003.2	978.7	980.3	1001.5	1026.1	1032.6
30°	1042.4	1026.1	988.5	941.3	918.3	925.0	946.1	964.1	972.2
32.5°	968.9	954.3	920.1	876.0	856.4	862.9	880.9	897.1	903.7
35°	892.3	876.0	846.7	807.4	794.4	800.9	817.2	830.2	833.6
37.5°	805.8	794.4	773.2	742.2	732.4	740.5	753.7	761.8	765.1
40°	725.9	716.1	698.2	675.4	672.1	678.6	691.7	696.5	698.2
42.5°	647.6	639.4	628.0	611.7	611.7	618.2	629.6	632.9	634.5
45°	572.6	567.6	562.7	549.7	552.9	561.1	567.6	572.6	572.6
47.5°	507.3	509.0	502.5	492.7	495.9	504.1	509.0	513.9	513.9
50°	456.7	451.8	445.3	435.5	440.4	446.9	453.5	456.7	458.3
52.5°	398.1	396.4	391.4	380.0	383.3	386.6	393.1	398.1	399.7
55°	355.6	350.7	344.2	331.2	331.2	334.4	337.7	340.9	344.2
57.5°	314.9	310.0	300.1	285.4	283.8	283.8	282.2	285.4	290.3
60°	274.0	272.4	257.7	244.7	239.8	234.9	228.4	230.1	236.6
62.5°	238.2	234.9	221.9	205.5	195.7	187.6	179.4	177.8	184.3
65°	205.5	202.2	187.6	171.3	159.9	145.2	132.2	132.2	137.1
67.5°	176.2	169.7	156.6	138.7	123.9	106.0	93.0	96.2	97.9
70°	146.9	142.0	127.2	109.3	91.3	73.4	65.3	66.9	66.9
72.5°	120.7	114.1	99.5	81.6	63.7	47.4	44.1	42.4	42.4
75°	94.6	88.1	73.4	55.5	39.1	27.7	24.4	24.4	24.4
77.5°	68.5	63.7	50.6	34.2	21.2	13.0	11.4	9.8	9.8
80°	47.4	42.4	30.9	17.9	8.1	4.9	4.9	4.9	4.9
82.5°	27.7	22.8	14.7	8.1	3.3	1.6	1.6	1.6	1.6
85°	13.0	9.8	6.5	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)