

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: P582052

Luminaire Tested: **HC625D010-HM60525840-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC625D010-HM60525840-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2686.7 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

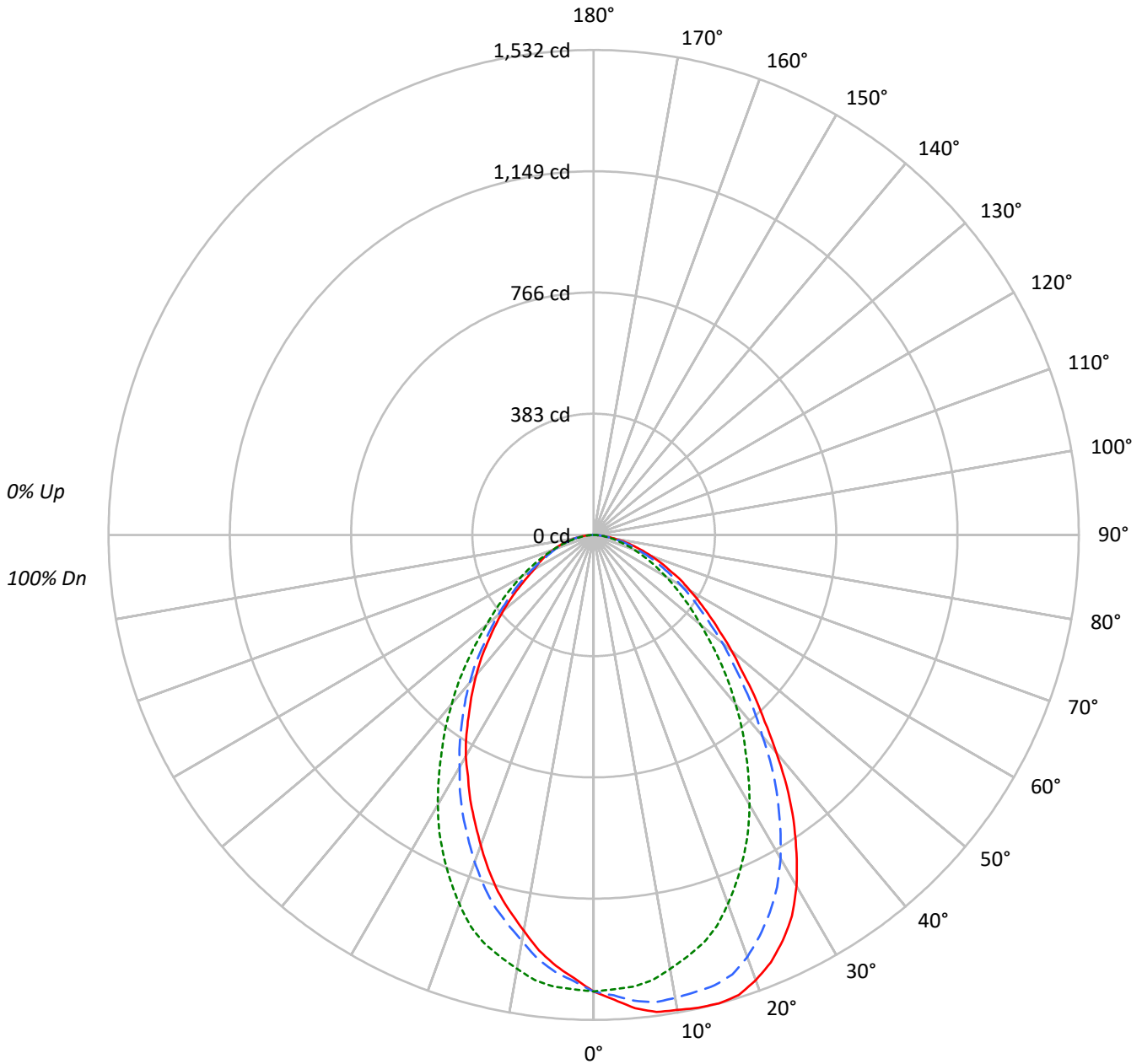
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	79067	79067	79067
5°	82577	78841	75203
10°	84829	77476	70668
15°	86930	75801	66215
20°	87315	72369	60818
25°	85487	67752	55775
30°	81101	62301	51122
35°	73656	55988	45862
40°	64185	49872	41256
45°	55533	43648	36275
50°	48502	37585	31794
55°	42856	33031	27268
60°	38517	28945	23627
65°	34491	25178	22921
70°	30806	21462	21462
75°	26730	18110	20143
80°	21436	15311	18405
85°	14655	13398	15851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	5.0
10°-20°	376.8	14.0
20°-30°	525.1	19.5
30°-40°	541.1	20.1
40°-50°	448.4	16.7
50°-60°	322.3	12.0
60°-70°	205.2	7.6
70°-80°	105.4	3.9
80°-90°	26.8	1.0
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°	1037.5	38.6
0°-40°	1578.6	58.8
0°-60°	2349.3	87.4
0°-90°	2686.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2686.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1442	1442	1442	1442	1442	
5°	1501	1477	1433	1386	1367	144
15°	1532	1473	1336	1213	1167	432
25°	1413	1316	1120	976	922	648
35°	1101	1011	837	726	685	684
45°	716	666	563	491	468	554
55°	448	412	346	307	285	404
65°	266	237	194	169	177	266
75°	126	109	86	89	95	135
85°	23	21	21	23	25	30
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°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1469.5	1463.6	1455.9	1448.1	1436.6	1422.9	1411.3	1407.4	1401.6
5°	1500.6	1492.8	1477.3	1457.9	1432.7	1407.4	1386.1	1372.4	1366.6
7.5°	1520.0	1510.2	1488.9	1455.9	1419.0	1382.2	1351.1	1331.7	1323.9
10°	1523.9	1514.1	1485.1	1440.3	1391.8	1341.3	1302.6	1279.3	1269.5
12.5°	1529.7	1516.1	1479.2	1426.8	1364.6	1306.5	1257.9	1228.8	1219.0
15°	1531.7	1516.1	1473.4	1409.4	1335.6	1265.7	1213.3	1178.3	1166.7
17.5°	1523.9	1506.4	1455.9	1378.3	1294.9	1221.0	1158.9	1122.1	1106.5
20°	1496.7	1477.3	1419.0	1331.7	1240.5	1162.8	1098.8	1059.9	1042.5
22.5°	1461.7	1436.6	1370.5	1277.3	1182.2	1100.6	1036.6	997.8	980.3
25°	1413.3	1390.0	1316.2	1217.2	1120.1	1034.7	976.5	935.6	922.1
27.5°	1356.9	1329.7	1254.0	1155.0	1056.0	970.6	914.3	877.5	859.9
30°	1281.2	1256.0	1180.2	1081.2	984.2	904.7	846.4	815.3	807.6
32.5°	1191.9	1170.6	1096.8	1003.7	910.4	836.6	788.1	755.2	747.4
35°	1100.6	1075.4	1011.4	924.0	836.6	770.7	726.0	696.9	685.3
37.5°	1001.6	978.3	924.0	846.4	768.7	706.6	667.7	642.5	630.9
40°	896.9	879.4	828.9	766.8	696.9	642.5	609.6	588.2	576.5
42.5°	799.8	782.4	747.4	689.2	630.9	582.4	553.2	533.8	524.1
45°	716.3	700.8	665.8	615.3	563.0	522.3	491.2	477.5	467.9
47.5°	632.9	625.1	594.0	547.4	498.9	464.0	442.6	427.0	419.3
50°	568.7	559.1	529.9	481.4	440.7	413.5	394.1	380.5	372.8
52.5°	502.8	493.1	465.9	425.1	392.1	366.9	347.5	335.8	328.0
55°	448.4	440.7	411.5	374.6	345.6	324.2	306.7	293.1	285.3
57.5°	398.0	390.2	363.0	328.0	302.9	283.4	267.9	256.2	246.6
60°	351.3	345.6	318.4	285.3	264.0	244.6	231.1	221.3	215.5
62.5°	310.6	299.0	275.7	246.6	227.2	211.6	198.0	192.2	196.1
65°	265.9	260.1	236.8	211.6	194.1	178.6	168.9	172.8	176.7
67.5°	229.0	221.3	201.9	178.6	163.0	151.4	145.6	153.4	155.2
70°	192.2	184.4	166.9	147.5	133.9	126.2	126.2	131.9	133.9
72.5°	157.3	151.4	135.8	120.4	110.6	104.9	108.8	112.6	114.5
75°	126.2	120.4	108.8	95.1	85.5	85.5	89.3	93.2	95.1
77.5°	97.1	93.2	81.6	71.8	67.9	67.9	71.8	73.8	75.7
80°	67.9	64.0	58.3	52.4	48.5	52.4	56.3	56.3	58.3
82.5°	44.6	42.7	38.8	35.0	35.0	36.8	38.8	40.7	40.7
85°	23.3	23.3	21.3	19.4	21.3	23.3	23.3	25.2	25.2
87.5°	7.8	7.8	7.8	7.8	9.6	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)