

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: P582008

Luminaire Tested: **HC625D010-HM60525830-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582008  
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-HM60525830-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2659.8 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

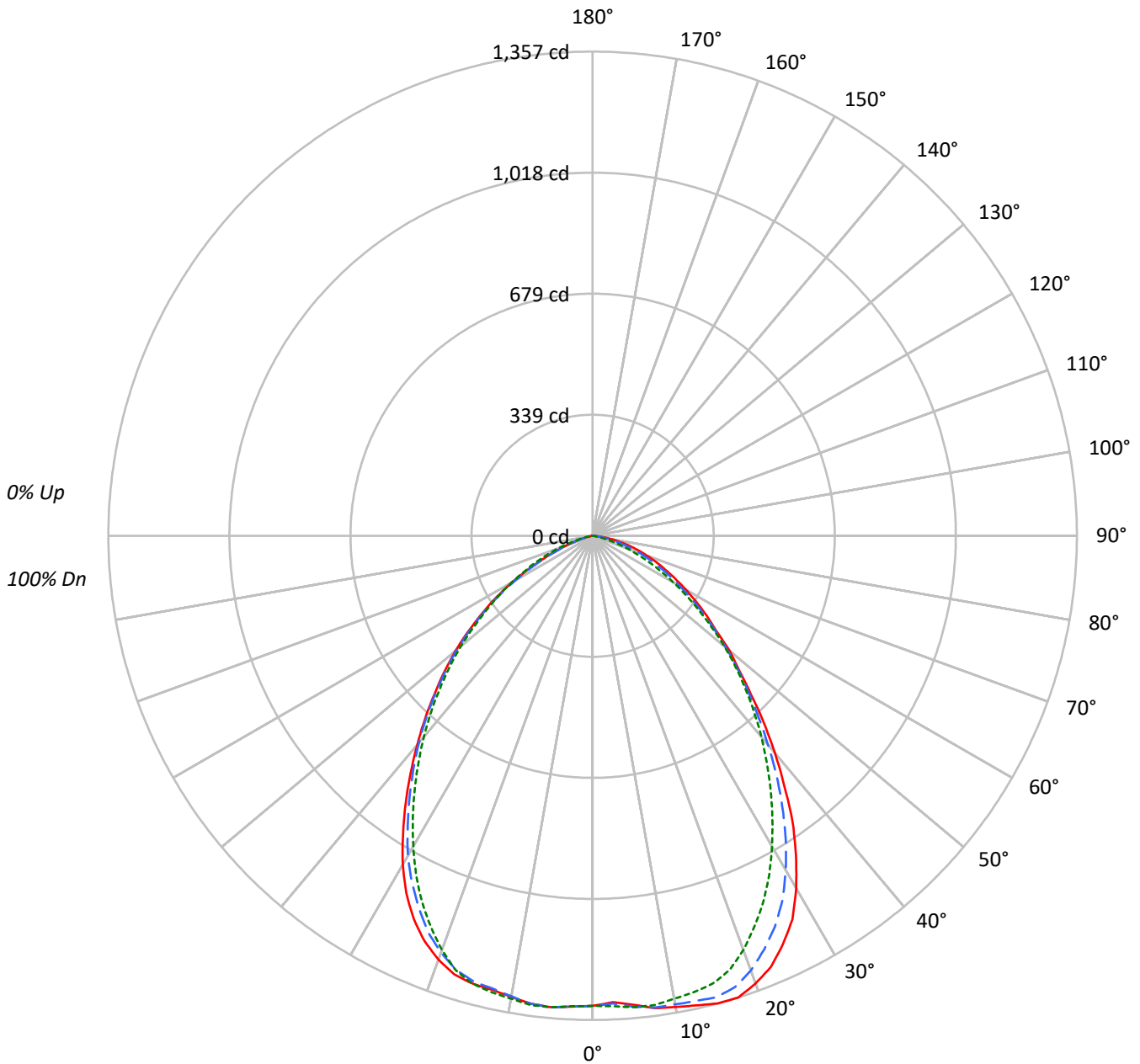
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582008

CATALOG NUMBER: HC625D010-HM60525830-61RWWC

### Luminous Intensity Polar Plot





TEST NUMBER: P582008

CATALOG NUMBER: HC625D010-HM60525830-61RWWC

**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°	72226	72226	72226
5°	72601	72991	72991
10°	74631	73340	73039
15°	76998	73758	73758
20°	77899	72065	73734
25°	76341	68460	71696
30°	72207	63617	67352
35°	65350	58190	61054
40°	56849	52634	54681
45°	48579	46920	48579
50°	42625	41107	42788
55°	37198	34637	36003
60°	32892	28770	28386
65°	29173	22687	19457
70°	25742	16028	11733
75°	21922	9087	5676
80°	16322	2810	1705
85°	8995	1132	1132



TEST NUMBER: P582008

CATALOG NUMBER: HC625D010-HM60525830-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	4.8
10°-20°	369.7	13.9
20°-30°	540.0	20.3
30°-40°	566.4	21.3
40°-50°	477.1	17.9
50°-60°	334.3	12.6
60°-70°	179.2	6.7
70°-80°	60.1	2.3
80°-90°	6.5	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°	1036.2	39.0
0°-40°	1602.5	60.2
0°-60°	2414.0	90.8
0°-90°	2659.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1319	1325	1326	1326	1326	127
15°	1357	1339	1300	1292	1300	383
25°	1262	1209	1132	1152	1185	578
35°	976	927	870	894	912	606
45°	627	616	605	621	627	488
55°	389	377	362	370	377	350
65°	225	205	175	145	150	225
75°	104	80	43	27	27	110
85°	14	7	2	2	2	20
90°	0	0	0	0	0	



TEST NUMBER: P582008

CATALOG NUMBER: HC625D010-HM60525830-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5
2.5°	1308.6	1308.6	1312.1	1315.6	1319.3	1319.3	1321.0	1322.8	1321.0
5°	1319.3	1319.3	1324.7	1326.4	1326.4	1324.7	1326.4	1326.4	1326.4
7.5°	1335.3	1331.8	1333.6	1329.9	1326.4	1324.7	1322.8	1322.8	1322.8
10°	1340.7	1337.1	1333.6	1326.4	1317.5	1312.1	1310.4	1312.1	1312.1
12.5°	1347.9	1344.2	1335.3	1321.0	1310.4	1301.5	1299.6	1303.2	1303.2
15°	1356.7	1353.2	1339.0	1315.6	1299.6	1290.7	1292.5	1296.1	1299.6
17.5°	1356.7	1349.6	1326.4	1296.1	1276.4	1267.5	1274.7	1283.6	1289.0
20°	1335.3	1328.2	1296.1	1258.6	1235.3	1230.1	1242.5	1258.6	1263.9
22.5°	1306.8	1292.5	1255.0	1210.4	1185.3	1185.3	1203.3	1222.9	1230.1
25°	1262.1	1251.5	1208.6	1156.8	1131.8	1130.1	1151.5	1178.2	1185.3
27.5°	1212.2	1197.9	1151.5	1097.9	1071.2	1072.9	1096.1	1122.9	1130.1
30°	1140.7	1122.9	1081.8	1030.1	1005.0	1012.2	1035.5	1055.0	1064.0
32.5°	1060.4	1044.4	1006.9	958.7	937.2	944.4	964.1	981.9	989.0
35°	976.5	958.7	926.6	883.7	869.5	876.6	894.4	908.7	912.3
37.5°	881.9	869.5	846.2	812.3	801.5	810.4	824.7	833.7	837.3
40°	794.4	783.8	764.1	739.1	735.5	742.7	756.9	762.3	764.1
42.5°	708.7	699.8	687.3	669.5	669.5	676.6	689.2	692.7	694.4
45°	626.6	621.2	615.8	601.6	605.2	614.1	621.2	626.6	626.6
47.5°	555.2	557.0	549.8	539.2	542.7	551.7	557.0	562.3	562.3
50°	499.8	494.6	487.4	476.6	482.0	489.2	496.3	499.8	501.7
52.5°	435.5	433.8	428.4	416.0	419.5	423.1	430.3	435.5	437.4
55°	389.2	383.8	376.7	362.4	362.4	366.0	369.5	373.1	376.7
57.5°	344.6	339.2	328.5	312.4	310.6	310.6	308.9	312.4	317.8
60°	300.0	298.1	282.1	267.8	262.4	257.1	250.0	251.7	258.9
62.5°	260.6	257.1	242.8	224.9	214.3	205.2	196.3	194.6	201.7
65°	224.9	221.4	205.2	187.4	174.9	158.9	144.6	144.6	150.0
67.5°	192.8	185.7	171.4	151.7	135.7	116.0	101.7	105.4	107.1
70°	160.6	155.4	139.2	119.7	100.0	80.3	71.4	73.2	73.2
72.5°	132.1	124.9	108.9	89.2	69.7	51.7	48.2	46.4	46.4
75°	103.5	96.4	80.3	60.6	42.9	30.3	26.8	26.8	26.8
77.5°	74.9	69.7	55.4	37.5	23.2	14.3	12.5	10.7	10.7
80°	51.7	46.4	34.0	19.7	8.9	5.4	5.4	5.4	5.4
82.5°	30.3	24.9	16.0	8.9	3.5	1.8	1.8	1.8	1.8
85°	14.3	10.7	7.1	3.5	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	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



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)