

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: P582033

Luminaire Tested: **HC625D010-HM60525835-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582033  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC625D010-HM60525835-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2298.1 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

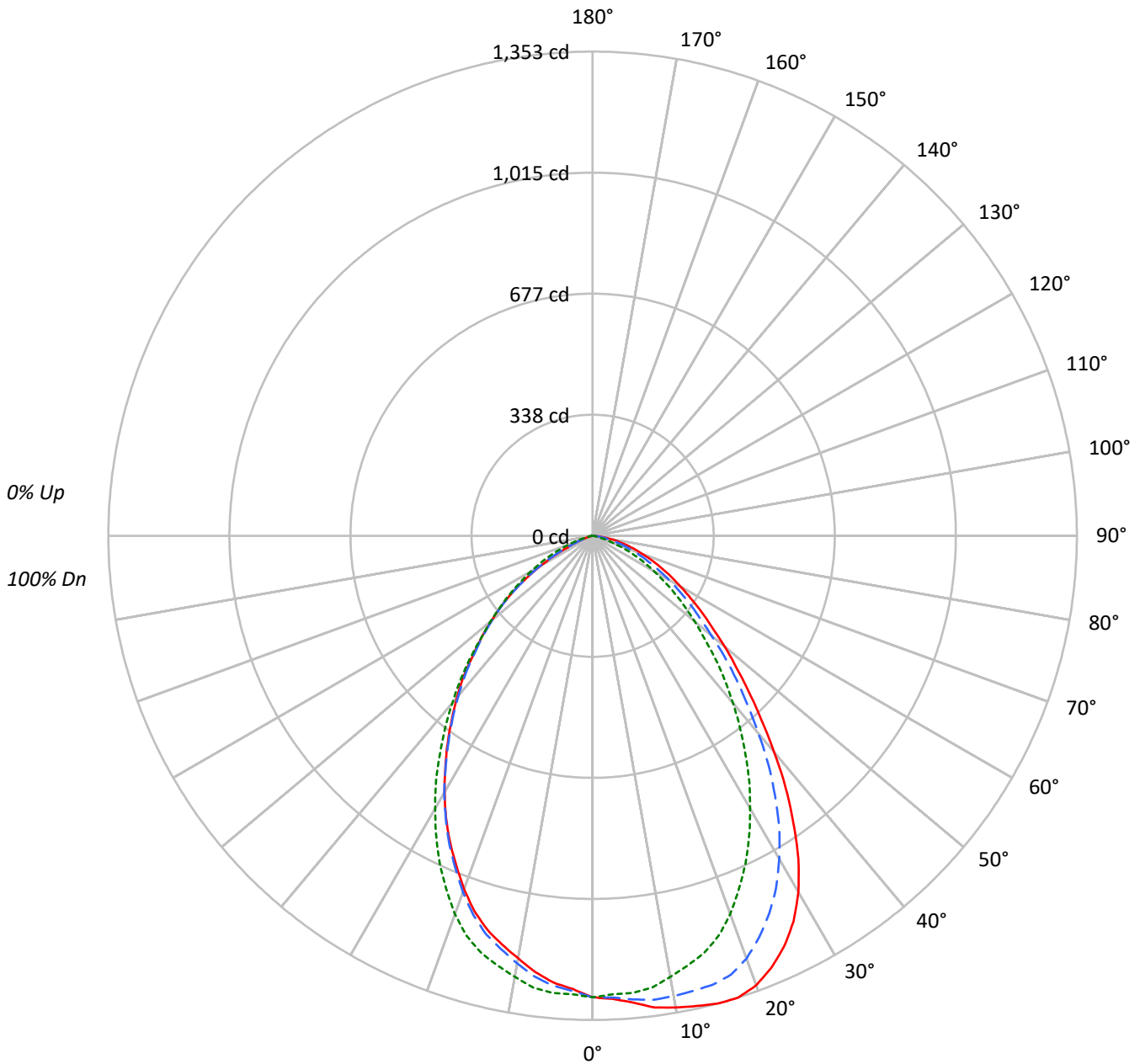
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

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

	0°	90°	180°
0°	70696	70696	70696
5°	72061	70564	68974
10°	74514	69666	66738
15°	76794	68451	64648
20°	77981	65607	61261
25°	76577	61110	57046
30°	72790	55686	52356
35°	65424	49771	47221
40°	56463	43617	42186
45°	47811	37547	36562
50°	40997	31709	31410
55°	35535	26694	25653
60°	31017	21676	18299
65°	27292	16707	10105
70°	23562	11044	4937
75°	19995	5380	1906
80°	15469	2305	1137
85°	9120	1132	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	5.3
10°-20°	344.1	15.0
20°-30°	484.6	21.1
30°-40°	495.2	21.5
40°-50°	399.2	17.4
50°-60°	267.8	11.7
60°-70°	135.5	5.9
70°-80°	43.3	1.9
80°-90°	6.7	0.3
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°	950.5	41.4
0°-40°	1445.6	62.9
0°-60°	2112.6	91.9
0°-90°	2298.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1290	1290	1290	1290	1290	
5°	1310	1300	1282	1262	1253	126
15°	1353	1299	1206	1152	1139	382
25°	1266	1166	1010	949	943	580
35°	978	889	744	702	706	608
45°	617	568	484	468	472	480
55°	372	330	279	267	268	335
65°	210	174	129	85	78	210
75°	94	67	25	9	9	101
85°	14	7	2	2	2	19
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°	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1295.1	1293.2	1291.5	1287.8	1282.3	1276.9	1273.3	1269.7	1267.8
5°	1309.5	1305.9	1300.5	1293.2	1282.3	1269.7	1262.4	1255.1	1253.4
7.5°	1329.6	1322.3	1307.8	1291.5	1273.3	1255.1	1242.5	1235.2	1229.7
10°	1338.6	1325.9	1305.9	1278.7	1251.5	1229.7	1213.4	1202.5	1198.9
12.5°	1345.8	1331.3	1302.2	1266.0	1229.7	1200.7	1182.6	1173.6	1169.9
15°	1353.1	1338.6	1298.6	1251.5	1206.1	1171.7	1151.8	1142.7	1139.1
17.5°	1353.1	1333.1	1286.0	1226.1	1171.7	1130.0	1110.0	1101.0	1099.1
20°	1336.7	1315.0	1257.0	1186.2	1124.6	1077.3	1059.3	1053.8	1050.1
22.5°	1305.9	1280.6	1215.3	1135.5	1068.3	1022.9	1003.0	999.4	995.8
25°	1266.0	1240.6	1166.3	1081.0	1010.3	964.9	948.6	945.0	943.1
27.5°	1215.3	1188.0	1110.0	1022.9	946.8	903.3	888.8	888.8	887.0
30°	1149.9	1119.1	1042.9	955.9	879.7	839.8	828.9	828.9	827.1
32.5°	1070.2	1039.2	970.3	887.0	814.3	772.7	763.6	767.2	765.5
35°	977.6	952.3	888.8	807.2	743.7	705.6	701.9	705.6	705.6
37.5°	885.1	861.6	807.2	736.4	676.5	642.0	642.0	647.6	645.7
40°	789.0	770.8	720.1	658.5	609.5	585.9	582.3	587.7	589.5
42.5°	698.3	683.8	640.3	589.5	545.9	522.4	527.8	531.4	533.3
45°	616.7	602.2	567.7	515.1	484.3	468.0	468.0	473.4	471.6
47.5°	544.2	533.3	498.8	447.9	420.8	413.5	417.1	420.8	420.8
50°	480.7	464.4	431.7	391.8	371.8	362.7	366.4	368.3	368.3
52.5°	420.8	409.9	377.3	340.9	322.9	317.4	317.4	319.3	319.3
55°	371.8	359.1	330.2	293.8	279.3	272.0	266.6	264.8	268.4
57.5°	324.7	313.8	286.6	252.1	235.8	228.5	217.6	214.0	217.6
60°	282.9	273.9	246.7	214.0	197.7	183.2	170.5	163.3	166.9
62.5°	246.7	235.8	208.6	181.4	163.3	147.0	126.9	116.0	121.5
65°	210.4	201.4	174.2	147.0	128.8	108.9	85.2	77.9	77.9
67.5°	177.8	168.7	143.3	119.7	98.0	74.3	52.6	50.7	52.6
70°	147.0	137.8	116.0	92.5	68.9	45.4	30.8	30.8	30.8
72.5°	121.5	110.6	90.7	67.2	43.5	23.6	16.3	18.2	18.2
75°	94.4	85.2	67.2	45.4	25.4	10.9	9.0	9.0	9.0
77.5°	70.8	63.5	47.1	29.1	12.7	3.6	3.6	3.6	3.6
80°	49.0	41.7	30.8	18.2	7.3	3.6	3.6	3.6	3.6
82.5°	29.1	25.4	18.2	9.0	3.6	1.8	1.8	1.8	1.8
85°	14.5	12.7	7.3	3.6	1.8	1.8	1.8	1.8	1.8
87.5°	3.6	3.6	1.8	1.8	0.0	1.8	1.8	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)