

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: P582080

Luminaire Tested: **HC625D010-HM60525930-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582080  
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-HM60525930-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2280.1 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

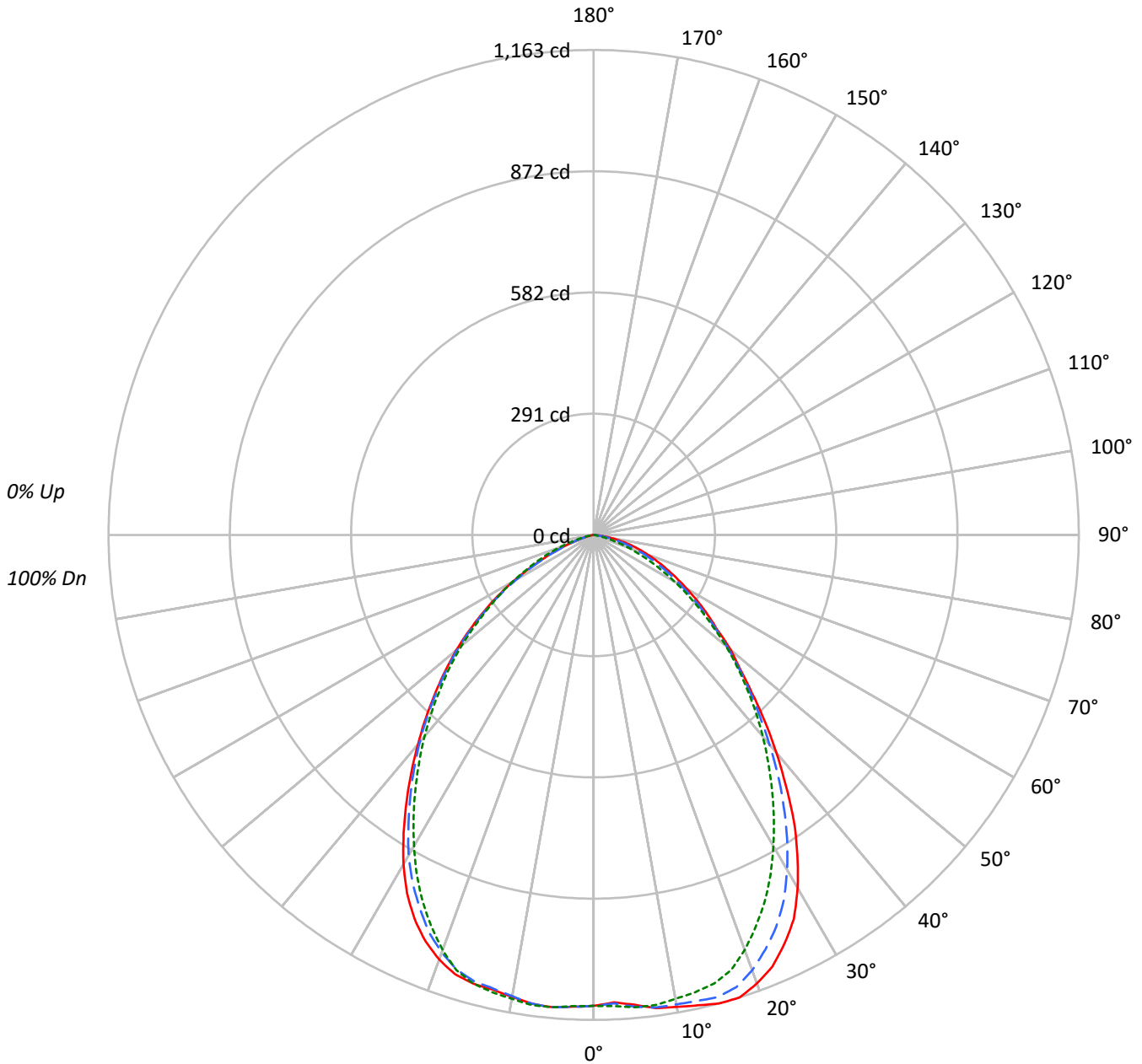
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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°	61919	61919	61919
5°	62238	62574	62574
10°	63977	62875	62613
15°	66005	63224	63224
20°	66780	61780	63210
25°	65447	58685	61467
30°	61896	54540	57737
35°	56021	49878	52334
40°	48734	45120	46866
45°	41648	40213	41648
50°	36545	35240	36673
55°	31894	29686	30862
60°	28189	24658	24329
65°	25009	19457	16681
70°	22071	13736	10066
75°	18787	7773	4850
80°	14017	2399	1452
85°	7737	943	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.3	4.8
10°-20°	317.0	13.9
20°-30°	462.9	20.3
30°-40°	485.5	21.3
40°-50°	409.0	17.9
50°-60°	286.6	12.6
60°-70°	153.6	6.7
70°-80°	51.5	2.3
80°-90°	5.6	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°	888.2	39.0
0°-40°	1373.7	60.2
0°-60°	2069.3	90.8
0°-90°	2280.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1130	1130	1130	1130	1130	
5°	1131	1136	1137	1137	1137	109
15°	1163	1148	1114	1108	1114	328
25°	1082	1036	970	987	1016	496
35°	837	794	745	767	782	520
45°	537	528	519	532	537	418
55°	334	323	311	317	323	300
65°	193	176	150	124	129	193
75°	89	69	37	23	23	94
85°	12	6	2	2	2	17
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°	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5	1129.5
2.5°	1121.7	1121.7	1124.8	1127.8	1131.0	1131.0	1132.5	1134.0	1132.5
5°	1131.0	1131.0	1135.5	1137.1	1137.1	1135.5	1137.1	1137.1	1137.1
7.5°	1144.7	1141.6	1143.1	1140.1	1137.1	1135.5	1134.0	1134.0	1134.0
10°	1149.3	1146.2	1143.1	1137.1	1129.5	1124.8	1123.3	1124.8	1124.8
12.5°	1155.4	1152.4	1144.7	1132.5	1123.3	1115.7	1114.0	1117.2	1117.2
15°	1163.0	1160.0	1147.7	1127.8	1114.0	1106.4	1108.0	1111.0	1114.0
17.5°	1163.0	1156.9	1137.1	1111.0	1094.2	1086.6	1092.6	1100.3	1104.9
20°	1144.7	1138.6	1111.0	1078.8	1059.0	1054.4	1065.2	1078.8	1083.5
22.5°	1120.2	1108.0	1075.8	1037.6	1016.2	1016.2	1031.5	1048.3	1054.4
25°	1082.0	1072.8	1036.1	991.6	970.2	968.7	987.1	1010.0	1016.2
27.5°	1039.1	1026.8	987.1	941.1	918.2	919.7	939.6	962.6	968.7
30°	977.8	962.6	927.3	883.0	861.6	867.7	887.6	904.4	912.1
32.5°	909.1	895.3	863.1	821.8	803.4	809.6	826.4	841.6	847.8
35°	837.1	821.8	794.3	757.6	745.3	751.4	766.7	779.0	782.0
37.5°	755.9	745.3	725.4	696.3	687.1	694.8	707.1	714.7	717.7
40°	681.0	671.9	654.9	633.5	630.5	636.6	648.9	653.4	654.9
42.5°	607.6	599.9	589.2	573.9	573.9	580.0	590.7	593.8	595.3
45°	537.2	532.5	528.0	515.7	518.7	526.4	532.5	537.2	537.2
47.5°	475.9	477.5	471.4	462.1	465.2	472.9	477.5	482.0	482.0
50°	428.5	423.9	417.8	408.6	413.2	419.3	425.4	428.5	430.0
52.5°	373.4	371.9	367.3	356.6	359.6	362.7	368.8	373.4	374.9
55°	333.7	329.0	322.9	310.6	310.6	313.8	316.8	319.9	322.9
57.5°	295.3	290.8	281.5	267.8	266.3	266.3	264.8	267.8	272.4
60°	257.1	255.6	241.8	229.5	224.9	220.4	214.3	215.8	221.9
62.5°	223.4	220.4	208.1	192.8	183.7	176.0	168.3	166.8	172.9
65°	192.8	189.7	176.0	160.6	150.0	136.2	123.9	123.9	128.6
67.5°	165.3	159.1	146.9	130.1	116.3	99.5	87.2	90.3	91.8
70°	137.7	133.2	119.4	102.5	85.7	68.9	61.3	62.8	62.8
72.5°	113.3	107.1	93.3	76.6	59.6	44.4	41.3	39.8	39.8
75°	88.7	82.7	68.9	52.0	36.7	26.1	22.9	22.9	22.9
77.5°	64.3	59.6	47.5	32.1	19.9	12.3	10.7	9.1	9.1
80°	44.4	39.8	29.1	16.8	7.6	4.6	4.6	4.6	4.6
82.5°	26.1	21.4	13.8	7.6	3.0	1.5	1.5	1.5	1.5
85°	12.3	9.1	6.1	3.0	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	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)