

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: P582087

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582087  
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-HM60525930-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1938.8 lumens  
Efficiency: N/A  
Efficacy: 72.3 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

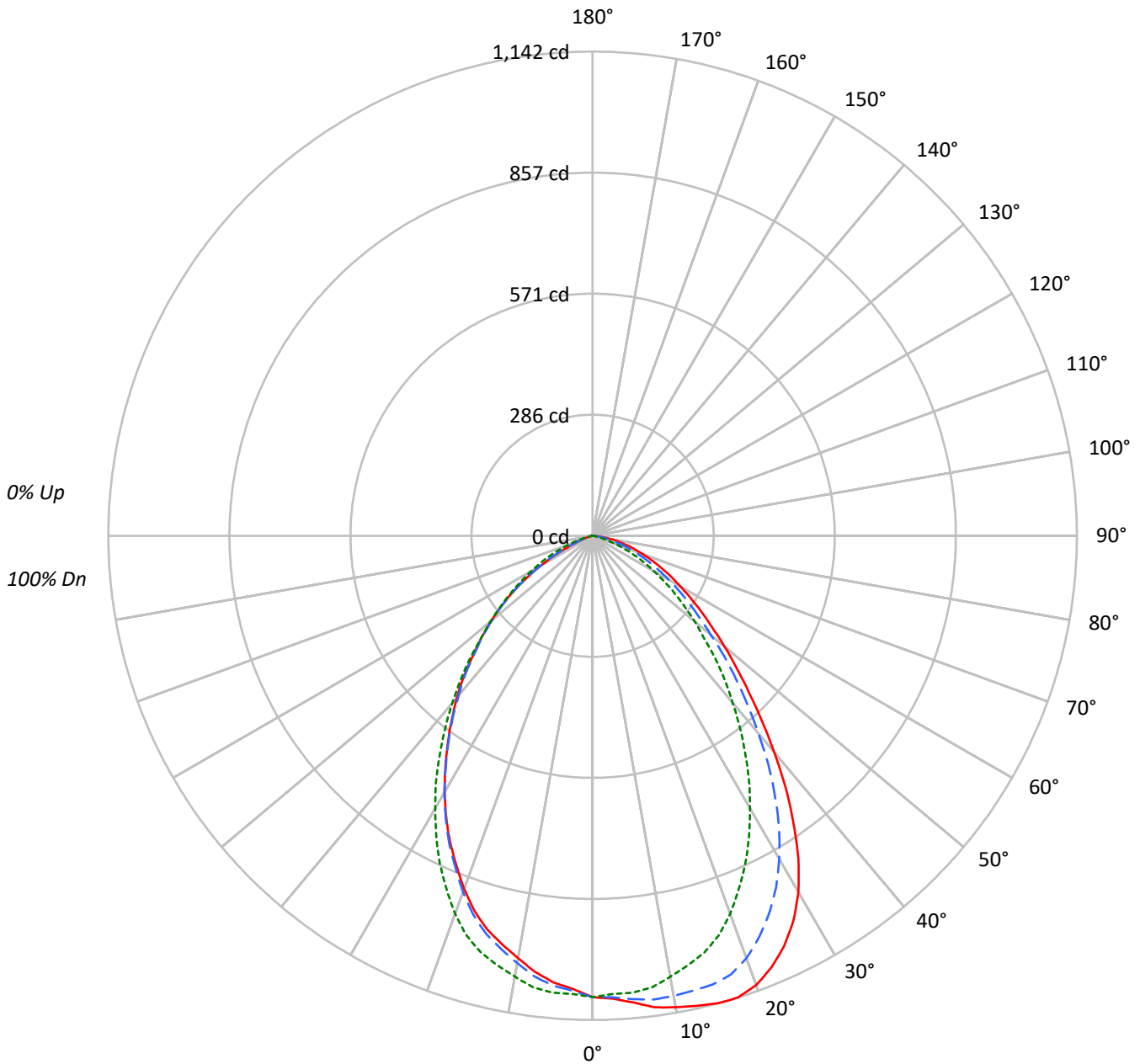
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	67	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°	59644	59644	59644
5°	60802	59531	58188
10°	62863	58778	56306
15°	64790	57753	54546
20°	65794	55351	51688
25°	64607	51553	48136
30°	61415	46982	44171
35°	55198	41988	39839
40°	47632	36790	35588
45°	40330	31678	30840
50°	34583	26762	26490
55°	29992	22527	21638
60°	26171	18288	15437
65°	23037	14087	8535
70°	19859	9312	4183
75°	16860	4533	1610
80°	13038	1926	947
85°	7737	943	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	5.3
10°-20°	290.3	15.0
20°-30°	408.9	21.1
30°-40°	417.7	21.5
40°-50°	336.8	17.4
50°-60°	225.9	11.7
60°-70°	114.3	5.9
70°-80°	36.5	1.9
80°-90°	5.6	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°	801.9	41.4
0°-40°	1219.6	62.9
0°-60°	1782.4	91.9
0°-90°	1938.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1105	1097	1082	1065	1057	106
15°	1142	1096	1018	972	961	322
25°	1068	984	852	800	796	489
35°	825	750	627	592	595	513
45°	520	479	409	395	398	405
55°	314	278	236	225	226	282
65°	178	147	109	72	66	177
75°	80	57	21	8	8	85
85°	12	6	2	2	2	16
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°	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0
2.5°	1092.6	1091.1	1089.5	1086.5	1081.8	1077.3	1074.2	1071.2	1069.7
5°	1104.9	1101.8	1097.1	1091.1	1081.8	1071.2	1065.0	1058.9	1057.4
7.5°	1121.7	1115.5	1103.3	1089.5	1074.2	1058.9	1048.3	1042.1	1037.5
10°	1129.3	1118.6	1101.8	1078.8	1055.9	1037.5	1023.7	1014.6	1011.5
12.5°	1135.5	1123.2	1098.8	1068.1	1037.5	1013.1	997.8	990.1	987.0
15°	1141.6	1129.3	1095.6	1055.9	1017.6	988.5	971.7	964.1	961.1
17.5°	1141.6	1124.7	1085.0	1034.5	988.5	953.3	936.5	928.8	927.3
20°	1127.8	1109.4	1060.4	1000.8	948.8	908.9	893.6	889.1	886.0
22.5°	1101.8	1080.3	1025.2	957.9	901.3	863.1	846.3	843.1	840.1
25°	1068.1	1046.6	984.0	912.1	852.3	814.1	800.3	797.3	795.8
27.5°	1025.2	1002.3	936.5	863.1	798.8	762.1	749.8	749.8	748.3
30°	970.2	944.1	879.9	806.4	742.2	708.4	699.3	699.3	697.8
32.5°	902.8	876.8	818.7	748.3	687.0	651.9	644.3	647.3	645.8
35°	824.8	803.4	749.8	681.0	627.4	595.3	592.2	595.3	595.3
37.5°	746.8	726.9	681.0	621.2	570.7	541.7	541.7	546.3	544.8
40°	665.6	650.3	607.5	555.5	514.1	494.3	491.2	495.8	497.3
42.5°	589.2	576.9	540.2	497.3	460.6	440.7	445.3	448.3	450.0
45°	520.2	508.1	479.0	434.5	408.6	394.8	394.8	399.3	397.8
47.5°	459.1	450.0	420.8	378.0	355.0	348.8	352.0	355.0	355.0
50°	405.5	391.7	364.2	330.5	313.8	306.1	309.1	310.6	310.6
52.5°	355.0	345.8	318.3	287.7	272.4	267.8	267.8	269.3	269.3
55°	313.8	303.0	278.5	247.8	235.7	229.5	224.9	223.4	226.4
57.5°	273.9	264.8	241.8	212.8	199.0	192.8	183.7	180.6	183.7
60°	238.7	231.1	208.1	180.6	166.8	154.5	143.8	137.7	140.8
62.5°	208.1	199.0	175.9	153.0	137.7	123.9	107.1	98.0	102.5
65°	177.6	169.9	146.9	123.9	108.6	91.8	71.9	65.8	65.8
67.5°	150.0	142.3	120.9	101.0	82.6	62.8	44.4	42.9	44.4
70°	123.9	116.3	98.0	78.1	58.1	38.2	26.1	26.1	26.1
72.5°	102.5	93.3	76.6	56.6	36.7	19.9	13.8	15.3	15.3
75°	79.6	71.9	56.6	38.2	21.4	9.1	7.6	7.6	7.6
77.5°	59.6	53.5	39.8	24.4	10.7	3.0	3.0	3.0	3.0
80°	41.3	35.2	26.1	15.3	6.1	3.0	3.0	3.0	3.0
82.5°	24.4	21.4	15.3	7.6	3.0	1.5	1.5	1.5	1.5
85°	12.3	10.7	6.1	3.0	1.5	1.5	1.5	1.5	1.5
87.5°	3.0	3.0	1.5	1.5	0.0	1.5	1.5	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)