

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: P593139

Luminaire Tested: **HC620D010-HM60525850-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593139  
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: HC620D010-HM60525850-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1912.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

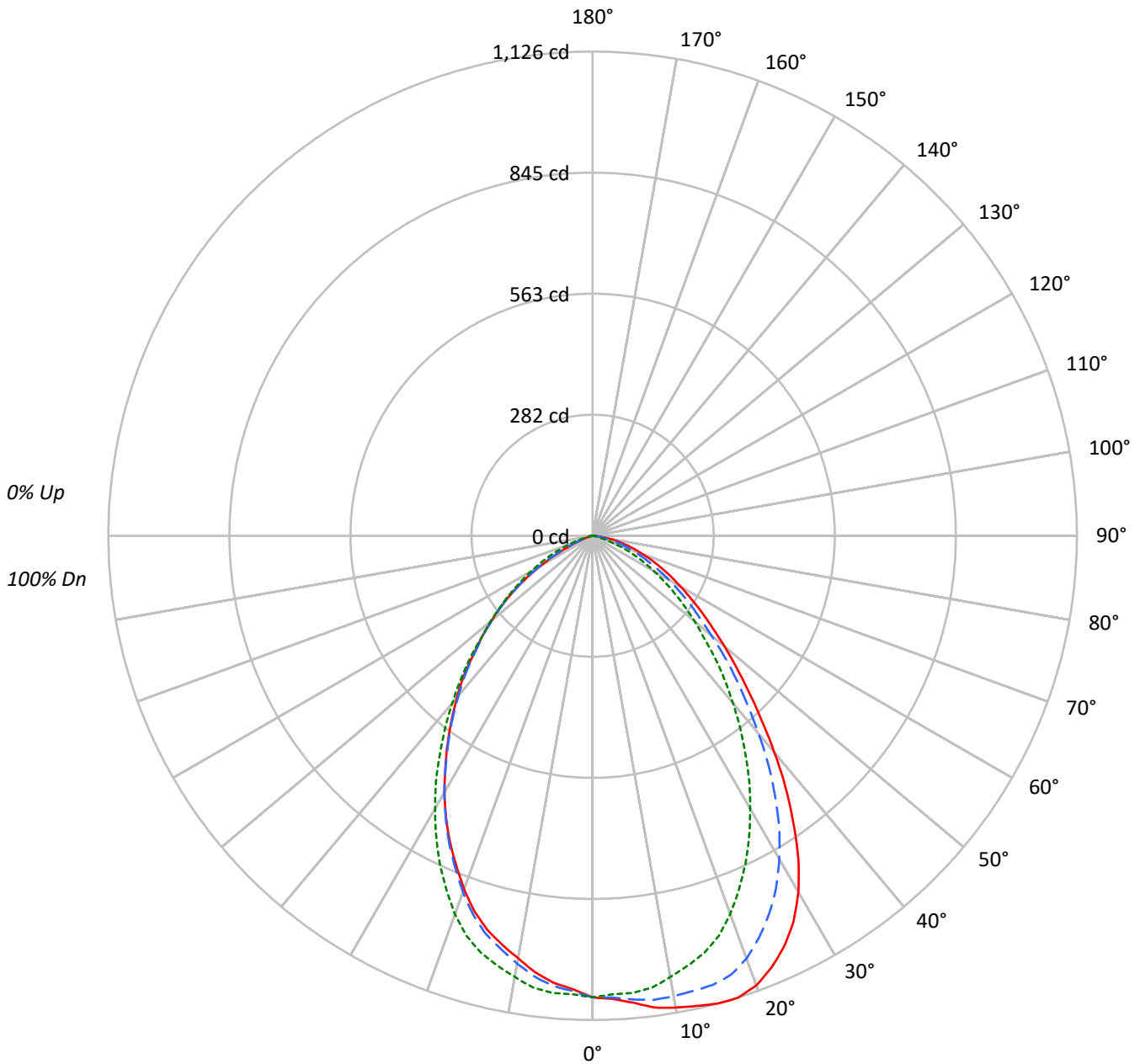
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100				
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89				89				
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				78				
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69				69				
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61				61				
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54				
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49				49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44				44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40				40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37				37				
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34				34				

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

	0°	90°	180°
0°	58844	58844	58844
5°	59988	58739	57412
10°	62023	57993	55549
15°	63922	56981	53808
20°	64913	54611	50994
25°	63742	50864	47489
30°	60592	46355	43576
35°	54455	41425	39304
40°	47002	36297	35116
45°	39803	31251	30437
50°	34123	26396	26140
55°	29581	22221	21352
60°	25831	18036	15229
65°	22726	13906	8419
70°	19603	9184	4119
75°	16627	4490	1610
80°	12880	1894	979
85°	7611	943	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	5.3
10°-20°	286.5	15.0
20°-30°	403.4	21.1
30°-40°	412.2	21.5
40°-50°	332.3	17.4
50°-60°	222.9	11.7
60°-70°	112.8	5.9
70°-80°	36.1	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°	791.2	41.4
0°-40°	1203.3	62.9
0°-60°	1758.5	91.9
0°-90°	1912.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1090	1082	1067	1051	1043	105
15°	1126	1081	1004	959	948	318
25°	1054	971	841	790	785	482
35°	814	740	619	584	587	506
45°	513	473	403	390	393	399
55°	310	275	232	222	223	278
65°	175	145	107	71	65	175
75°	78	56	21	8	8	84
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°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1077.9	1076.5	1075.0	1071.9	1067.4	1062.9	1059.8	1056.9	1055.3
5°	1090.1	1087.0	1082.5	1076.5	1067.4	1056.9	1050.9	1044.7	1043.3
7.5°	1106.7	1100.6	1088.6	1075.0	1059.8	1044.7	1034.2	1028.2	1023.7
10°	1114.2	1103.7	1087.0	1064.3	1041.8	1023.7	1010.1	1001.0	997.9
12.5°	1120.2	1108.2	1084.1	1053.8	1023.7	999.4	984.4	976.9	973.8
15°	1126.3	1114.2	1081.0	1041.8	1004.0	975.3	958.7	951.2	948.1
17.5°	1126.3	1109.7	1070.5	1020.6	975.3	940.6	924.0	916.5	914.9
20°	1112.7	1094.6	1046.3	987.4	936.1	896.8	881.7	877.2	874.1
22.5°	1087.0	1065.9	1011.5	945.1	889.3	851.6	834.9	831.8	828.9
25°	1053.8	1032.7	970.8	899.8	840.9	803.2	789.6	786.6	785.1
27.5°	1011.5	988.9	924.0	851.6	788.1	751.9	739.7	739.7	738.3
30°	957.2	931.6	868.1	795.7	732.3	699.1	690.0	690.0	688.4
32.5°	890.8	865.0	807.7	738.3	677.9	643.2	635.6	638.7	637.1
35°	813.7	792.6	739.7	671.9	619.0	587.3	584.3	587.3	587.3
37.5°	736.8	717.2	671.9	613.0	563.1	534.4	534.4	539.0	537.5
40°	656.8	641.6	599.4	548.0	507.2	487.6	484.6	489.1	490.7
42.5°	581.2	569.2	533.0	490.7	454.4	434.8	439.4	442.3	443.9
45°	513.4	501.2	472.6	428.7	403.1	389.5	389.5	394.1	392.6
47.5°	453.0	443.9	415.2	372.9	350.3	344.2	347.3	350.3	350.3
50°	400.1	386.5	359.3	326.1	309.5	301.9	305.0	306.5	306.5
52.5°	350.3	341.3	314.1	283.8	268.7	264.2	264.2	265.7	265.7
55°	309.5	298.9	274.8	244.6	232.5	226.5	222.0	220.5	223.4
57.5°	270.2	261.2	238.5	209.8	196.2	190.2	181.2	178.1	181.2
60°	235.6	228.0	205.3	178.1	164.5	152.5	142.0	135.8	138.9
62.5°	205.3	196.2	173.6	151.0	135.8	122.3	105.7	96.6	101.2
65°	175.2	167.6	144.9	122.3	107.2	90.6	70.9	64.9	64.9
67.5°	148.0	140.4	119.3	99.6	81.6	61.9	43.7	42.3	43.7
70°	122.3	114.8	96.6	77.0	57.3	37.7	25.7	25.7	25.7
72.5°	101.2	92.1	75.5	55.9	36.3	19.6	13.6	15.1	15.1
75°	78.5	70.9	55.9	37.7	21.2	9.1	7.6	7.6	7.6
77.5°	58.9	52.8	39.2	24.1	10.5	3.1	3.1	3.1	3.1
80°	40.8	34.7	25.7	15.1	6.0	3.1	3.1	3.1	3.1
82.5°	24.1	21.2	15.1	7.6	3.1	1.5	1.5	1.5	1.5
85°	12.1	10.5	6.0	3.1	1.5	1.5	1.5	1.5	1.5
87.5°	3.1	3.1	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)