

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: P593138

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC620D010-HM60525850-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2257.2 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

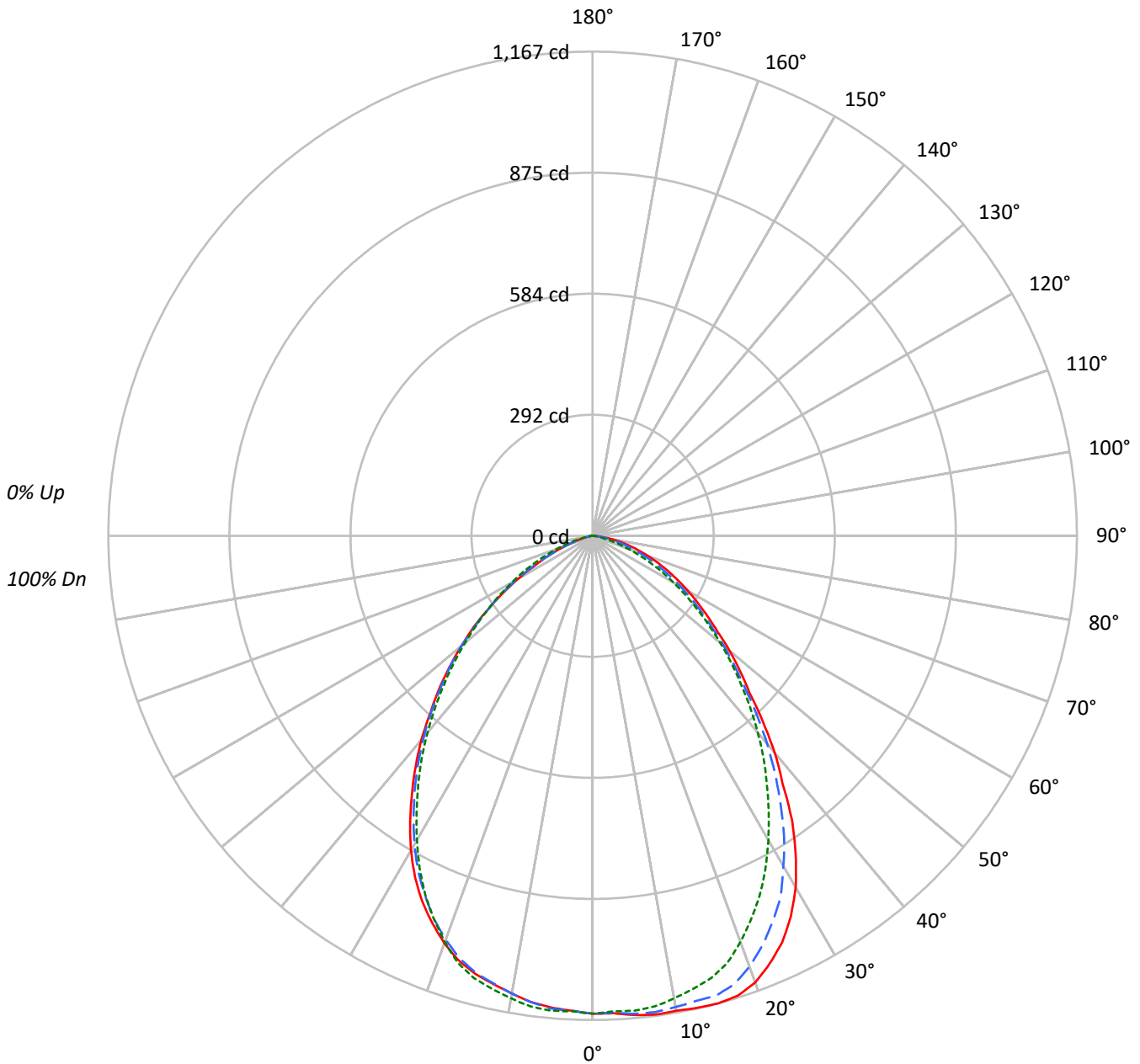
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
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	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	63147	63147	63147
5°	63807	63223	62811
10°	64712	63030	62357
15°	66232	62639	62032
20°	66850	60771	60946
25°	65387	57711	58806
30°	61927	53610	55426
35°	56075	49008	50815
40°	48834	44297	45915
45°	41431	39213	40617
50°	36698	34242	35154
55°	32324	29294	29151
60°	28967	24658	22685
65°	25852	19782	16253
70°	22760	14281	10162
75°	19169	8642	5761
80°	14775	3820	2399
85°	8554	943	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	4.8
10°-20°	314.3	13.9
20°-30°	454.3	20.1
30°-40°	478.0	21.2
40°-50°	401.8	17.8
50°-60°	282.0	12.5
60°-70°	155.1	6.9
70°-80°	55.1	2.4
80°-90°	7.2	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°	877.9	38.9
0°-40°	1355.9	60.1
0°-60°	2039.7	90.4
0°-90°	2257.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1152	1152	1152	1152	1152	
5°	1160	1156	1149	1144	1141	111
15°	1167	1147	1104	1090	1093	329
25°	1081	1027	954	956	972	495
35°	838	790	732	747	759	519
45°	534	519	506	518	524	419
55°	338	320	306	306	305	304
65°	199	178	152	125	125	198
75°	90	72	41	27	27	97
85°	14	8	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°	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9
2.5°	1151.9	1151.9	1150.4	1150.4	1147.4	1147.4	1145.9	1145.9	1145.9
5°	1159.5	1159.5	1156.5	1151.9	1148.9	1144.3	1144.3	1142.9	1141.4
7.5°	1164.0	1162.5	1157.9	1151.9	1144.3	1136.9	1133.8	1135.3	1133.8
10°	1162.5	1159.5	1153.4	1141.4	1132.3	1121.7	1120.2	1118.7	1120.2
12.5°	1165.5	1161.0	1148.9	1133.8	1118.7	1106.6	1105.1	1105.1	1106.6
15°	1167.0	1162.5	1147.4	1124.7	1103.7	1091.5	1090.1	1091.5	1093.0
17.5°	1162.5	1156.5	1133.8	1103.7	1079.4	1067.4	1067.4	1070.3	1073.4
20°	1145.9	1136.9	1105.1	1068.9	1041.7	1032.6	1035.7	1041.7	1044.7
22.5°	1115.7	1105.1	1068.9	1028.1	999.4	991.9	999.4	1007.0	1010.0
25°	1081.0	1068.9	1026.6	984.4	954.1	945.0	955.7	967.7	972.2
27.5°	1034.2	1020.6	981.3	933.0	902.8	898.2	910.4	924.0	927.0
30°	978.3	963.2	919.4	874.1	846.9	845.4	859.0	871.2	875.6
32.5°	910.4	896.8	859.0	813.7	789.6	789.6	803.2	813.7	818.3
35°	837.9	822.8	789.6	751.9	732.3	733.7	747.3	754.8	759.3
37.5°	751.9	747.3	721.6	690.0	676.4	679.3	690.0	696.0	700.5
40°	682.4	670.3	653.7	628.0	619.0	622.0	632.6	638.6	641.6
42.5°	606.9	599.4	585.8	567.6	561.6	566.2	575.2	579.8	578.2
45°	534.4	533.0	519.4	508.8	505.8	511.8	517.8	522.3	523.9
47.5°	481.6	475.5	463.5	455.9	452.9	459.0	465.0	468.0	468.0
50°	430.3	424.2	412.2	404.6	401.5	407.7	412.2	415.1	412.2
52.5°	379.0	372.9	362.3	353.3	351.8	354.7	356.3	357.8	360.9
55°	338.2	332.1	320.1	309.5	306.5	307.9	306.5	306.5	305.0
57.5°	298.9	292.9	280.8	268.7	264.2	262.7	258.2	256.6	255.2
60°	264.2	256.6	244.6	231.0	224.9	218.9	211.3	206.9	206.9
62.5°	231.0	223.4	209.8	197.8	188.8	178.1	166.1	160.0	160.0
65°	199.3	193.3	178.1	164.5	152.5	138.9	125.3	122.3	125.3
67.5°	169.0	163.0	148.0	134.4	119.3	102.6	90.5	90.5	93.6
70°	142.0	135.8	122.3	105.7	89.1	72.5	63.4	63.4	63.4
72.5°	116.2	110.2	95.1	80.0	63.4	46.8	42.3	43.7	42.3
75°	90.5	86.1	72.5	55.9	40.8	28.7	27.2	25.7	27.2
77.5°	68.0	63.4	51.3	36.3	22.7	16.7	15.1	15.1	15.1
80°	46.8	42.3	33.2	21.2	12.1	7.6	7.6	7.6	7.6
82.5°	28.7	24.1	18.1	10.5	4.5	4.5	4.5	4.5	4.5
85°	13.6	10.5	7.6	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)