

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: P593141

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC620D010-HM60525850-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2163.6 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

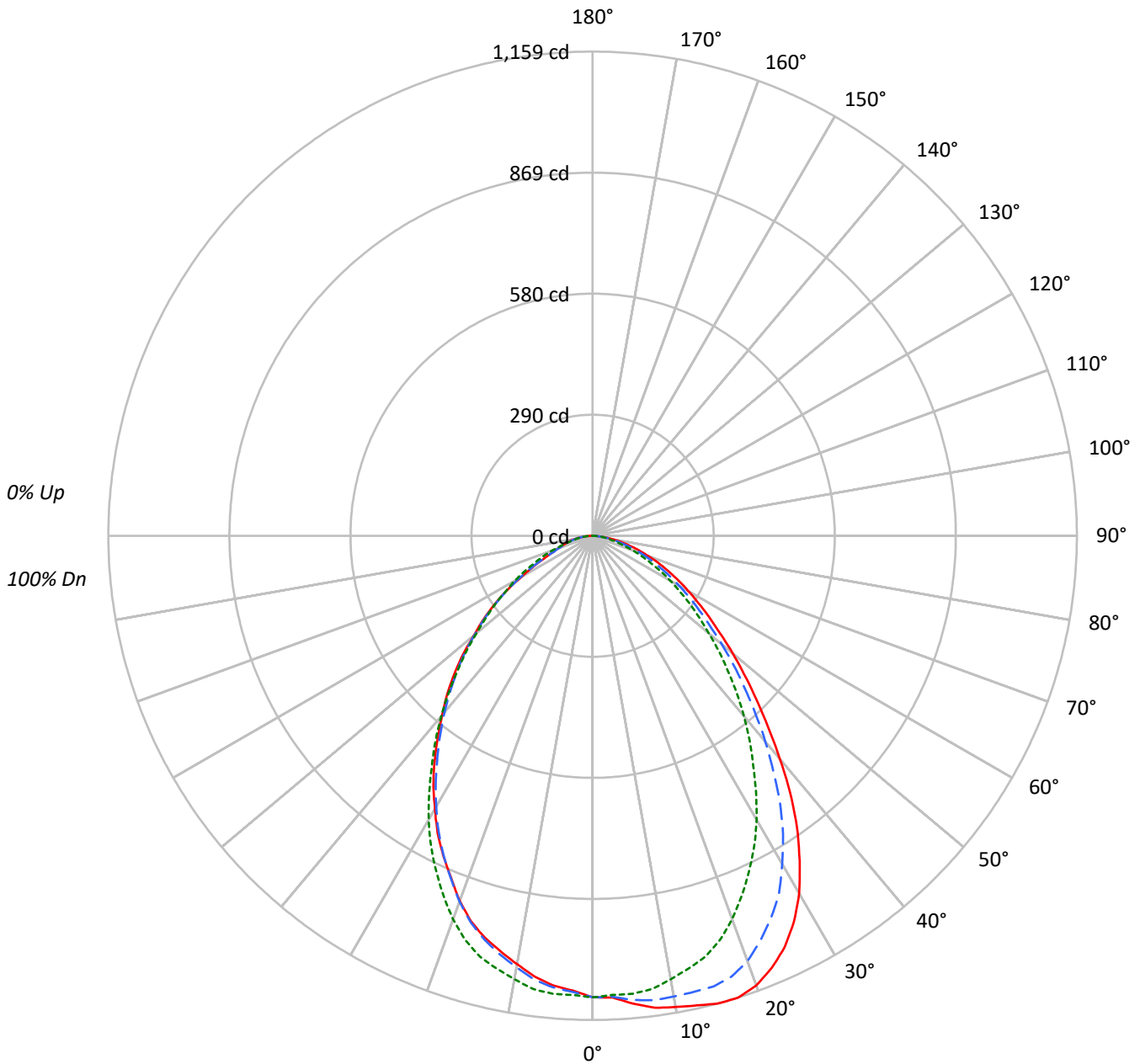
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593141

CATALOG NUMBER: HC620D010-HM60525850-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P593141

CATALOG NUMBER: HC620D010-HM60525850-61WWWB

**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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

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

	0°	90°	180°
0°	60565	60565	60565
5°	61875	60549	59470
10°	63771	59986	57965
15°	65784	59189	56533
20°	66832	56967	54237
25°	65732	53586	51124
30°	62573	49679	47767
35°	57065	44845	44136
40°	49893	40290	40068
45°	42942	35453	36267
50°	37329	30890	31538
55°	32601	27115	27411
60°	28956	23507	21511
65°	25839	19769	16448
70°	22744	16205	13784
75°	19508	12793	13111
80°	15753	10955	12880
85°	10504	9498	11385



TEST NUMBER: P593141

CATALOG NUMBER: HC620D010-HM60525850-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	4.8
10°-20°	297.8	13.8
20°-30°	425.1	19.6
30°-40°	445.3	20.6
40°-50°	374.9	17.3
50°-60°	266.8	12.3
60°-70°	156.2	7.2
70°-80°	73.9	3.4
80°-90°	19.0	0.9
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°	827.5	38.2
0°-40°	1272.7	58.8
0°-60°	1914.5	88.5
0°-90°	2163.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1105	1105	1105	1105	1105	
5°	1124	1115	1100	1085	1081	108
15°	1159	1117	1043	1001	996	327
25°	1087	1010	886	844	845	497
35°	853	782	670	648	660	530
45°	554	513	457	459	468	430
55°	341	312	284	284	287	307
65°	199	177	152	128	127	199
75°	92	77	60	59	62	99
85°	17	14	15	18	18	22
90°	0	0	0	0	0	



TEST NUMBER: P593141

CATALOG NUMBER: HC620D010-HM60525850-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8
2.5°	1106.3	1106.3	1104.8	1103.3	1100.3	1095.7	1092.7	1089.7	1089.7
5°	1124.4	1121.3	1115.3	1107.8	1100.3	1091.2	1085.2	1080.7	1080.7
7.5°	1139.5	1133.5	1121.3	1107.8	1094.3	1082.1	1071.6	1065.6	1064.0
10°	1145.6	1138.0	1119.9	1098.8	1077.6	1061.1	1048.9	1041.3	1041.3
12.5°	1151.6	1142.5	1118.4	1088.1	1061.1	1038.4	1026.3	1020.3	1018.8
15°	1159.1	1147.0	1116.8	1079.1	1042.9	1017.2	1000.7	996.1	996.1
17.5°	1159.1	1144.0	1106.3	1059.5	1014.3	985.6	970.4	965.9	967.5
20°	1145.6	1128.9	1083.6	1026.3	976.5	946.3	931.2	928.2	929.7
22.5°	1119.9	1100.3	1048.9	987.1	932.7	901.1	887.5	887.5	885.9
25°	1086.7	1065.6	1009.7	944.8	885.9	854.3	843.6	845.2	845.2
27.5°	1042.9	1021.7	965.9	896.5	837.6	805.9	798.4	801.4	803.0
30°	988.5	965.9	907.1	839.1	784.8	753.1	748.6	753.1	754.6
32.5°	922.1	905.6	848.2	778.8	727.5	700.3	698.8	703.4	709.4
35°	852.7	834.6	781.8	718.4	670.1	647.5	647.5	655.0	659.5
37.5°	777.2	759.1	710.8	658.0	617.3	596.2	599.1	606.7	608.2
40°	697.2	683.7	643.0	597.7	563.0	546.3	550.9	558.5	559.9
42.5°	621.8	609.8	576.6	535.8	510.1	498.1	504.1	513.1	516.2
45°	553.9	540.3	513.1	478.5	457.3	451.3	458.9	464.9	467.8
47.5°	492.1	479.9	457.3	425.6	410.5	407.5	415.0	418.1	421.1
50°	437.7	425.6	403.0	374.3	362.2	362.2	368.2	371.3	369.8
52.5°	384.9	374.3	353.2	329.0	321.4	321.4	326.0	327.6	330.5
55°	341.1	330.5	312.4	289.8	283.7	280.8	283.7	283.7	286.8
57.5°	300.4	291.3	274.6	253.6	246.0	243.0	241.4	240.0	243.0
60°	264.1	256.6	238.5	220.4	214.4	206.8	200.8	194.6	196.2
62.5°	230.9	223.3	206.8	188.6	182.6	172.1	164.5	156.9	160.0
65°	199.2	191.7	176.6	161.5	152.4	140.4	128.3	123.7	126.8
67.5°	170.5	164.5	149.4	134.4	126.8	113.2	101.1	101.1	102.6
70°	141.9	135.8	123.7	110.1	101.1	89.1	84.5	86.0	86.0
72.5°	116.2	111.7	99.6	87.6	78.5	70.9	70.9	72.4	74.0
75°	92.1	89.1	76.9	66.4	60.4	55.9	58.9	60.4	61.9
77.5°	70.9	66.4	57.3	49.9	45.3	46.8	49.9	51.3	52.8
80°	49.9	48.3	40.8	36.3	34.7	36.3	39.2	40.8	40.8
82.5°	31.7	30.1	25.6	24.1	24.1	25.6	28.7	28.7	28.7
85°	16.7	15.1	13.6	13.6	15.1	16.7	18.1	18.1	18.1
87.5°	6.0	4.5	6.0	6.0	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)