

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: P593137

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593137  
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: HC620D010-HM60525850-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2249.6 lumens  
Efficiency: N/A  
Efficacy: 112.5 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

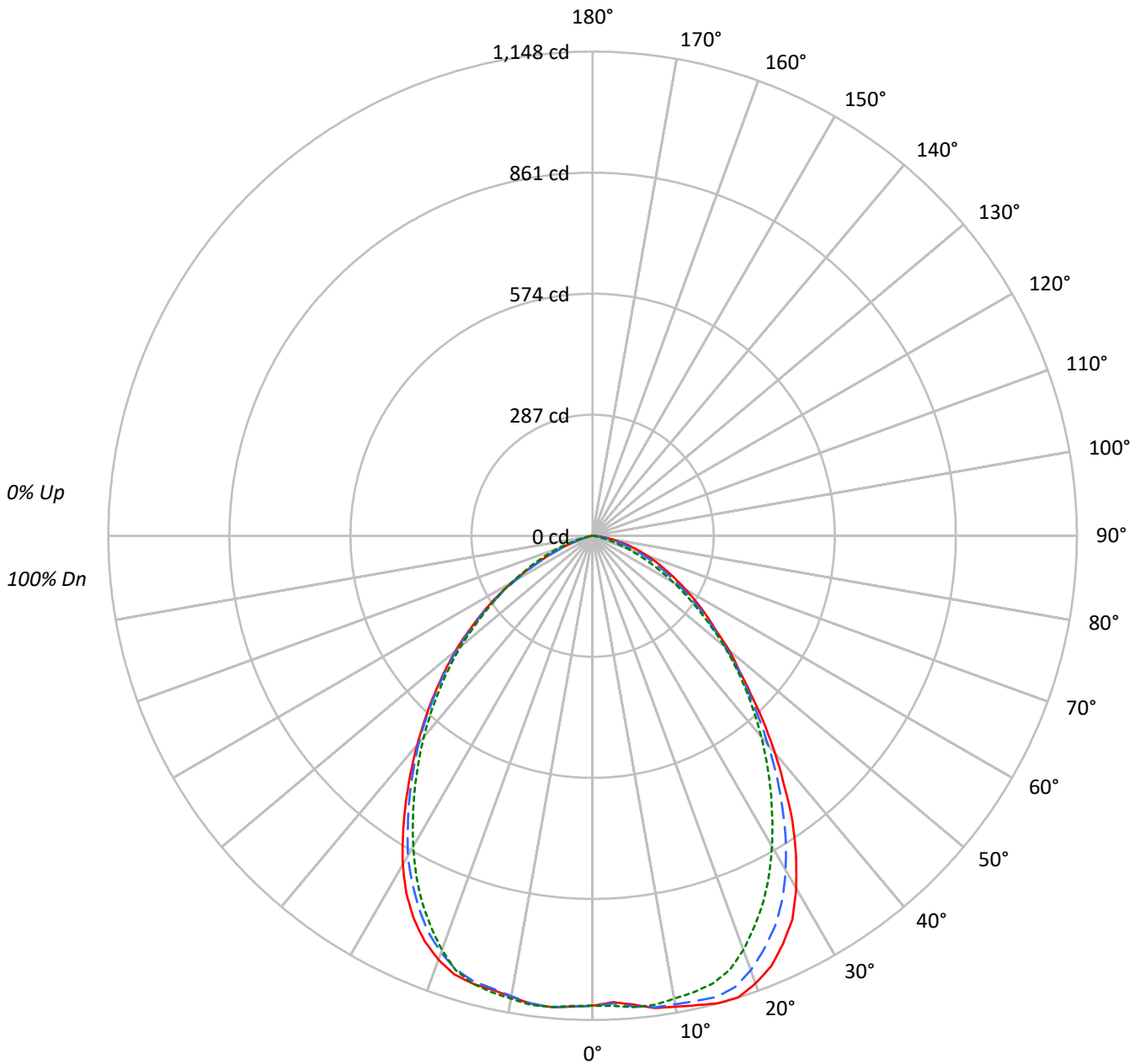
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

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

	0°	90°	180°
0°	61086	61086	61086
5°	61402	61732	61732
10°	63120	62028	61778
15°	65125	62384	62384
20°	65887	60958	62364
25°	64570	57905	60645
30°	61079	53812	56964
35°	55278	49209	51638
40°	48083	44512	46251
45°	41090	39686	41090
50°	36050	34771	36186
55°	31454	29294	30451
60°	27816	24340	24000
65°	24672	19198	16448
70°	21766	13544	9922
75°	18554	7689	4808
80°	13796	2399	1421
85°	7611	943	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	4.8
10°-20°	312.7	13.9
20°-30°	456.7	20.3
30°-40°	479.0	21.3
40°-50°	403.6	17.9
50°-60°	282.7	12.6
60°-70°	151.6	6.7
70°-80°	50.8	2.3
80°-90°	5.5	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°	876.4	39.0
0°-40°	1355.4	60.2
0°-60°	2041.7	90.8
0°-90°	2249.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2249.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1114	1114	1114	1114	1114	
5°	1116	1120	1122	1122	1122	107
15°	1148	1132	1099	1093	1099	324
25°	1068	1022	957	974	1003	489
35°	826	784	735	756	772	513
45°	530	521	512	526	530	413
55°	329	319	306	313	319	296
65°	190	174	148	122	127	190
75°	88	68	36	23	23	93
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°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1106.7	1106.7	1109.8	1112.8	1115.8	1115.8	1117.4	1118.8	1117.4
5°	1115.8	1115.8	1120.3	1121.8	1121.8	1120.3	1121.8	1121.8	1121.8
7.5°	1129.4	1126.3	1127.9	1124.8	1121.8	1120.3	1118.8	1118.8	1118.8
10°	1133.9	1130.8	1127.9	1121.8	1114.3	1109.8	1108.3	1109.8	1109.8
12.5°	1139.9	1137.0	1129.4	1117.4	1108.3	1100.7	1099.2	1102.2	1102.2
15°	1147.5	1144.4	1132.4	1112.8	1099.2	1091.6	1093.1	1096.2	1099.2
17.5°	1147.5	1141.5	1121.8	1096.2	1079.5	1072.0	1078.0	1085.6	1090.2
20°	1129.4	1123.4	1096.2	1064.5	1044.9	1040.3	1050.9	1064.5	1069.0
22.5°	1105.2	1093.1	1061.4	1023.7	1002.6	1002.6	1017.7	1034.3	1040.3
25°	1067.5	1058.4	1022.2	978.3	957.3	955.8	973.8	996.5	1002.6
27.5°	1025.3	1013.1	973.8	928.6	905.9	907.4	927.0	949.7	955.8
30°	964.9	949.7	915.0	871.2	850.1	856.1	875.7	892.4	899.9
32.5°	896.9	883.3	851.6	810.8	792.6	798.8	815.3	830.4	836.5
35°	826.0	810.8	783.6	747.4	735.3	741.3	756.5	768.5	771.6
37.5°	745.9	735.3	715.7	686.9	678.0	685.5	697.6	705.1	708.1
40°	671.9	662.8	646.3	625.1	622.0	628.1	640.1	644.7	646.3
42.5°	599.5	591.9	581.3	566.2	566.2	572.3	582.8	585.9	587.3
45°	530.0	525.5	521.0	508.8	511.9	519.4	525.5	530.0	530.0
47.5°	469.5	471.1	465.1	456.0	459.0	466.6	471.1	475.6	475.6
50°	422.7	418.2	412.2	403.1	407.7	413.7	419.8	422.7	424.3
52.5°	368.5	366.9	362.3	351.8	354.9	357.8	363.9	368.5	369.9
55°	329.1	324.6	318.6	306.5	306.5	309.5	312.6	315.5	318.6
57.5°	291.4	286.9	277.8	264.2	262.7	262.7	261.2	264.2	268.7
60°	253.7	252.2	238.6	226.5	222.0	217.4	211.4	212.9	218.9
62.5°	220.5	217.4	205.3	190.2	181.2	173.7	166.1	164.6	170.6
65°	190.2	187.2	173.7	158.5	148.0	134.4	122.3	122.3	126.8
67.5°	163.0	157.0	144.9	128.4	114.8	98.1	86.1	89.1	90.6
70°	135.8	131.3	117.7	101.2	84.5	68.0	60.4	61.9	61.9
72.5°	111.7	105.7	92.1	75.5	58.9	43.7	40.8	39.2	39.2
75°	87.6	81.6	68.0	51.3	36.3	25.7	22.7	22.7	22.7
77.5°	63.4	58.9	46.8	31.7	19.6	12.1	10.5	9.1	9.1
80°	43.7	39.2	28.7	16.7	7.6	4.5	4.5	4.5	4.5
82.5°	25.7	21.2	13.6	7.6	3.1	1.5	1.5	1.5	1.5
85°	12.1	9.1	6.0	3.1	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)