

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: P582206

Luminaire Tested: **HC630D010-HM63040927-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582206  
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: HC630D010-HM63040927-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2575.6 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

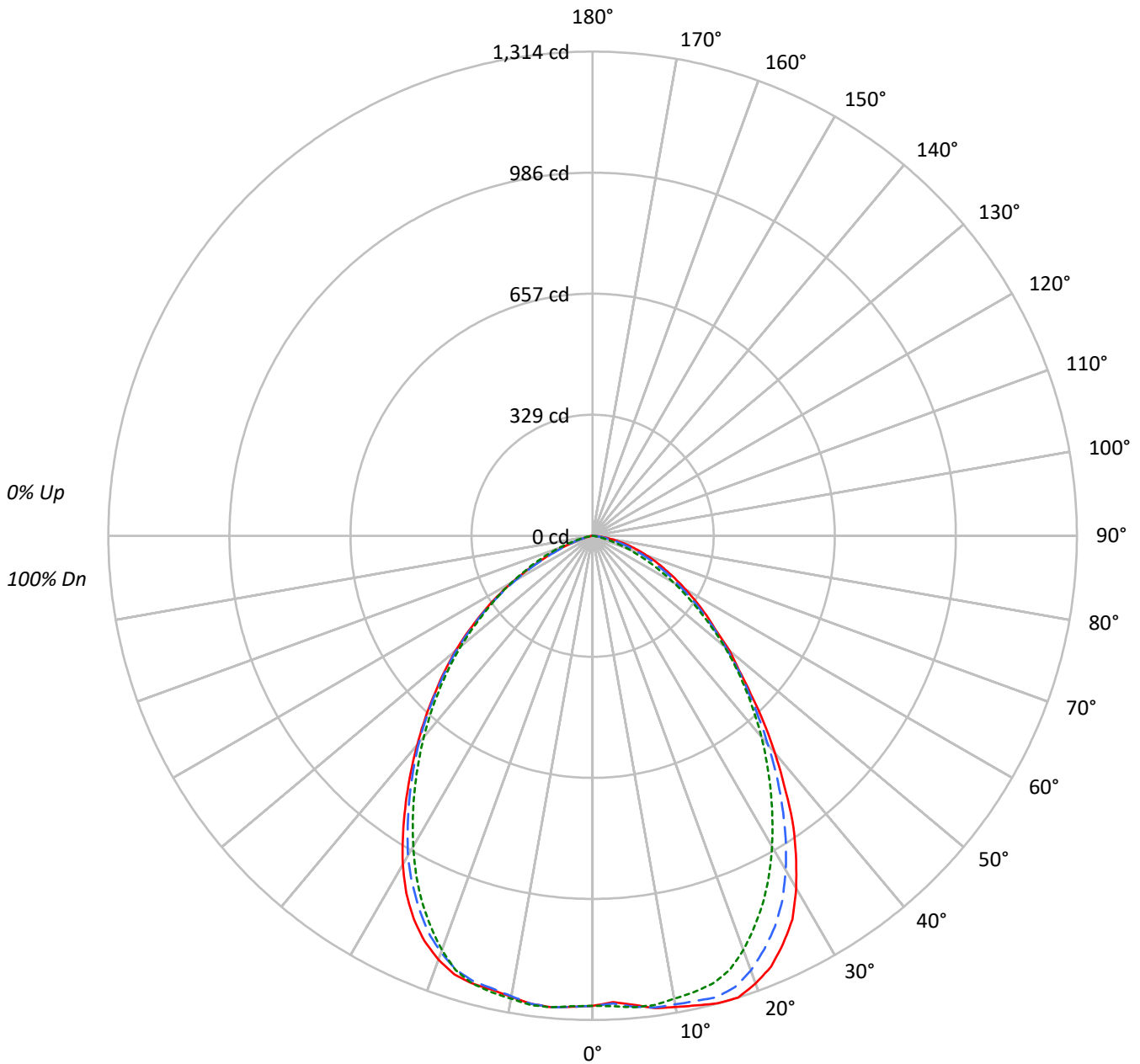
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	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	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	69934	69934	69934
5°	70300	70680	70680
10°	72265	71013	70729
15°	74558	71419	71419
20°	75432	69790	71395
25°	73928	66288	69433
30°	69922	61604	65219
35°	63282	56336	59113
40°	55053	50967	52949
45°	47036	45439	47036
50°	41278	39803	41423
55°	36013	33538	34866
60°	31840	27860	27476
65°	28252	21974	18835
70°	24924	15515	11364
75°	21223	8790	5486
80°	15848	2747	1642
85°	8680	1132	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.4	4.8
10°-20°	358.0	13.9
20°-30°	522.9	20.3
30°-40°	548.4	21.3
40°-50°	462.0	17.9
50°-60°	323.7	12.6
60°-70°	173.6	6.7
70°-80°	58.2	2.3
80°-90°	6.4	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°	1003.3	39.0
0°-40°	1551.7	60.2
0°-60°	2337.5	90.8
0°-90°	2575.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1276	1276	1276	1276	1276	
5°	1278	1283	1284	1284	1284	123
15°	1314	1296	1258	1252	1258	371
25°	1222	1170	1096	1115	1148	560
35°	946	897	842	866	883	587
45°	607	596	586	602	607	473
55°	377	365	351	358	365	339
65°	218	199	169	140	145	217
75°	100	78	42	26	26	106
85°	14	7	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°	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1267.1	1267.1	1270.6	1274.0	1277.5	1277.5	1279.2	1280.9	1279.2
5°	1277.5	1277.5	1282.7	1284.4	1284.4	1282.7	1284.4	1284.4	1284.4
7.5°	1293.0	1289.6	1291.3	1287.8	1284.4	1282.7	1280.9	1280.9	1280.9
10°	1298.2	1294.7	1291.3	1284.4	1275.7	1270.6	1268.8	1270.6	1270.6
12.5°	1305.2	1301.7	1293.0	1279.2	1268.8	1260.2	1258.4	1261.9	1261.9
15°	1313.7	1310.3	1296.5	1274.0	1258.4	1249.8	1251.5	1255.0	1258.4
17.5°	1313.7	1306.8	1284.4	1255.0	1236.0	1227.3	1234.3	1242.9	1248.1
20°	1293.0	1286.1	1255.0	1218.7	1196.3	1191.0	1203.1	1218.7	1223.8
22.5°	1265.3	1251.5	1215.3	1172.0	1147.9	1147.9	1165.1	1184.1	1191.0
25°	1222.2	1211.8	1170.3	1120.2	1095.9	1094.2	1114.9	1140.8	1147.9
27.5°	1173.8	1159.9	1114.9	1063.1	1037.2	1038.9	1061.4	1087.3	1094.2
30°	1104.6	1087.3	1047.5	997.5	973.2	980.1	1002.6	1021.6	1030.3
32.5°	1026.8	1011.2	975.0	928.3	907.6	914.5	933.5	950.7	957.6
35°	945.6	928.3	897.2	855.7	841.8	848.7	866.1	879.9	883.3
37.5°	853.9	841.8	819.3	786.5	776.2	784.9	798.7	807.3	810.8
40°	769.3	758.8	739.9	715.7	712.2	719.1	732.9	738.1	739.9
42.5°	686.3	677.6	665.5	648.2	648.2	655.1	667.3	670.7	672.5
45°	606.7	601.5	596.4	582.6	586.1	594.6	601.5	606.7	606.7
47.5°	537.5	539.3	532.4	522.1	525.5	534.1	539.3	544.6	544.6
50°	484.0	478.8	471.9	461.6	466.7	473.7	480.6	484.0	485.7
52.5°	421.7	420.1	414.8	402.7	406.3	409.7	416.6	421.7	423.5
55°	376.8	371.7	364.8	350.9	350.9	354.3	357.8	361.3	364.8
57.5°	333.6	328.4	318.1	302.5	300.8	300.8	299.0	302.5	307.7
60°	290.4	288.7	273.1	259.3	254.1	249.0	242.0	243.7	250.6
62.5°	252.4	249.0	235.1	217.8	207.5	198.8	190.1	188.5	195.4
65°	217.8	214.4	198.8	181.6	169.4	153.9	140.1	140.1	145.2
67.5°	186.7	179.8	166.0	147.0	131.4	112.4	98.6	102.0	103.7
70°	155.5	150.4	134.8	115.8	96.8	77.8	69.2	70.9	70.9
72.5°	127.9	121.0	105.5	86.4	67.4	50.2	46.7	44.9	44.9
75°	100.2	93.3	77.8	58.7	41.5	29.4	25.9	25.9	25.9
77.5°	72.6	67.4	53.6	36.3	22.5	13.8	12.1	10.3	10.3
80°	50.2	44.9	32.8	19.0	8.7	5.2	5.2	5.2	5.2
82.5°	29.4	24.3	15.6	8.7	3.4	1.8	1.8	1.8	1.8
85°	13.8	10.3	6.9	3.4	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	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



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)