

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: P582213

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582213  
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: HC630D010-HM63040927-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2190.1 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

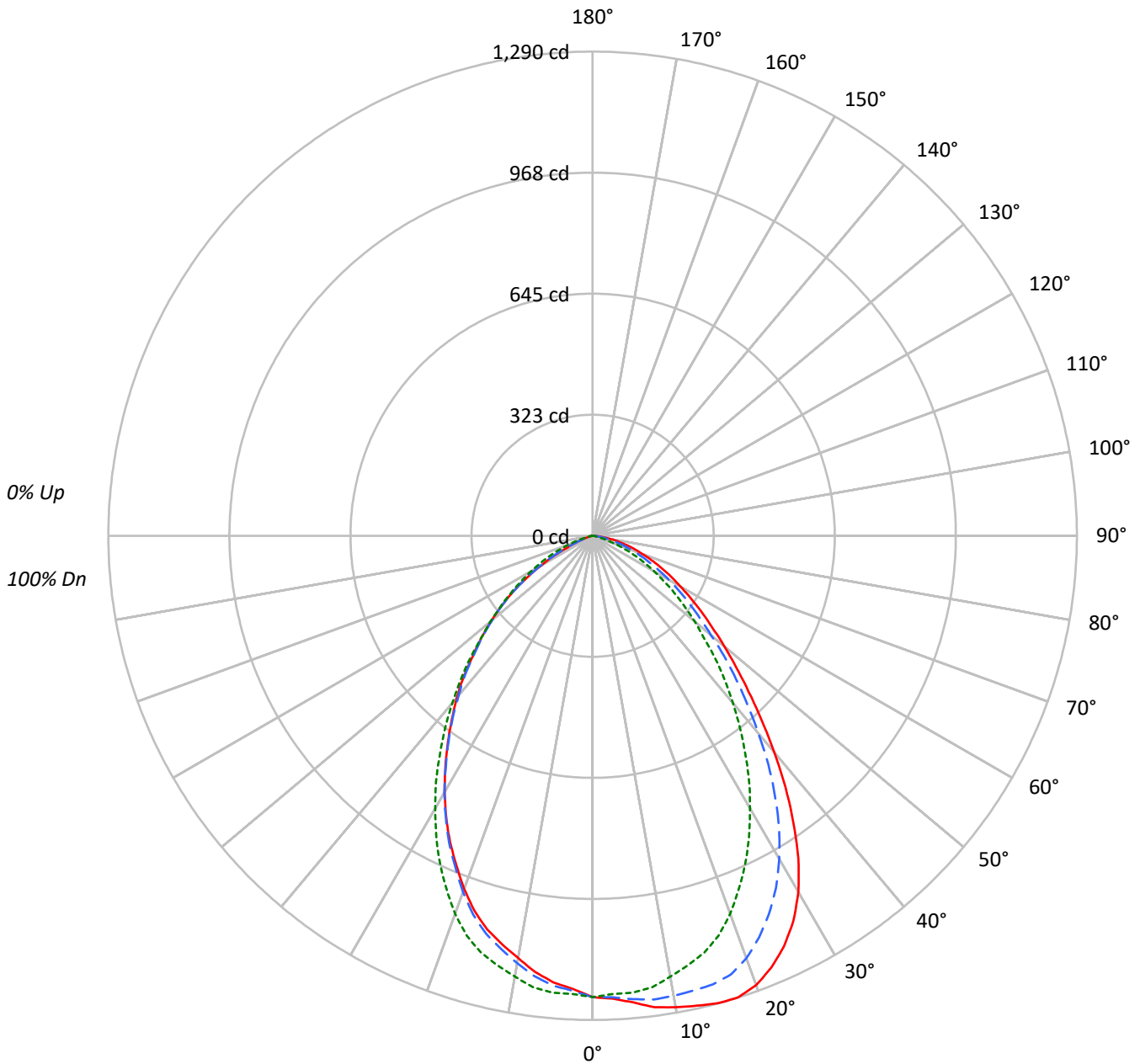
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

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

	0°	90°	180°
0°	67374	67374	67374
5°	68677	67252	65727
10°	71013	66393	63598
15°	73184	65239	61612
20°	74317	62515	58385
25°	72978	58231	54372
30°	69371	53071	49894
35°	62352	47422	44999
40°	53808	41564	40204
45°	45563	35787	34841
50°	39061	30216	29927
55°	33863	25442	24458
60°	29570	20667	17433
65°	26008	15916	9638
70°	22456	10515	4712
75°	19042	5147	1843
80°	14743	2178	1073
85°	8680	1132	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	5.3
10°-20°	328.0	15.0
20°-30°	461.8	21.1
30°-40°	471.9	21.5
40°-50°	380.5	17.4
50°-60°	255.2	11.7
60°-70°	129.1	5.9
70°-80°	41.3	1.9
80°-90°	6.4	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°	905.8	41.4
0°-40°	1377.7	62.9
0°-60°	2013.3	91.9
0°-90°	2190.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1229	1229	1229	1229	1229	
5°	1248	1239	1222	1203	1194	120
15°	1290	1238	1150	1098	1086	364
25°	1206	1112	963	904	899	552
35°	932	847	709	669	672	580
45°	588	541	462	446	449	457
55°	354	315	266	254	256	319
65°	200	166	123	81	74	200
75°	90	64	24	9	9	97
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°	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0	1229.0
2.5°	1234.2	1232.4	1230.7	1227.3	1222.1	1216.8	1213.4	1209.9	1208.3
5°	1248.0	1244.5	1239.3	1232.4	1222.1	1209.9	1203.0	1196.1	1194.4
7.5°	1267.0	1260.1	1246.3	1230.7	1213.4	1196.1	1184.0	1177.1	1172.0
10°	1275.7	1263.6	1244.5	1218.6	1192.7	1172.0	1156.4	1146.0	1142.5
12.5°	1282.6	1268.8	1241.1	1206.5	1172.0	1144.3	1127.1	1118.4	1114.9
15°	1289.5	1275.7	1237.6	1192.7	1149.5	1116.6	1097.6	1089.0	1085.6
17.5°	1289.5	1270.4	1225.5	1168.4	1116.6	1076.9	1057.9	1049.2	1047.5
20°	1273.9	1253.2	1197.9	1130.5	1071.6	1026.7	1009.5	1004.2	1000.8
22.5°	1244.5	1220.4	1158.1	1082.1	1018.1	974.9	955.8	952.4	948.9
25°	1206.5	1182.3	1111.5	1030.1	962.7	919.6	904.0	900.5	898.9
27.5°	1158.1	1132.2	1057.9	974.9	902.3	860.8	846.9	846.9	845.3
30°	1095.9	1066.5	993.9	910.9	838.4	800.3	790.0	790.0	788.2
32.5°	1019.8	990.4	924.8	845.3	776.1	736.3	727.7	731.1	729.5
35°	931.7	907.4	846.9	769.2	708.6	672.4	668.9	672.4	672.4
37.5°	843.5	821.0	769.2	701.7	644.8	611.9	611.9	617.1	615.3
40°	751.9	734.6	686.2	627.4	580.8	558.4	554.9	560.0	561.8
42.5°	665.5	651.7	610.2	561.8	520.3	497.8	502.9	506.5	508.2
45°	587.7	573.8	541.0	490.9	461.6	446.0	446.0	451.1	449.4
47.5°	518.5	508.2	475.4	427.0	401.0	394.2	397.6	401.0	401.0
50°	458.0	442.5	411.4	373.3	354.3	345.8	349.2	350.9	350.9
52.5°	401.0	390.7	359.6	325.0	307.7	302.5	302.5	304.3	304.3
55°	354.3	342.2	314.6	280.0	266.2	259.3	254.1	252.3	255.9
57.5°	309.4	299.0	273.1	240.3	224.7	217.8	207.5	203.9	207.5
60°	269.7	261.0	235.1	203.9	188.5	174.5	162.5	155.5	159.0
62.5°	235.1	224.7	198.8	172.9	155.5	140.1	121.0	110.6	115.8
65°	200.5	191.9	166.0	140.1	122.7	103.7	81.2	74.3	74.3
67.5°	169.4	160.8	136.5	114.0	93.3	70.9	50.2	48.4	50.2
70°	140.1	131.4	110.6	88.1	65.6	43.2	29.4	29.4	29.4
72.5°	115.8	105.5	86.4	64.0	41.5	22.5	15.6	17.2	17.2
75°	89.9	81.2	64.0	43.2	24.3	10.3	8.7	8.7	8.7
77.5°	67.4	60.5	44.9	27.7	12.1	3.4	3.4	3.4	3.4
80°	46.7	39.7	29.4	17.2	6.9	3.4	3.4	3.4	3.4
82.5°	27.7	24.3	17.2	8.7	3.4	1.8	1.8	1.8	1.8
85°	13.8	12.1	6.9	3.4	1.8	1.8	1.8	1.8	1.8
87.5°	3.4	3.4	1.8	1.8	0.0	1.8	1.8	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)