

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: P583204

Luminaire Tested: **HC660D010-HM64560840-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560840-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5734.8 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

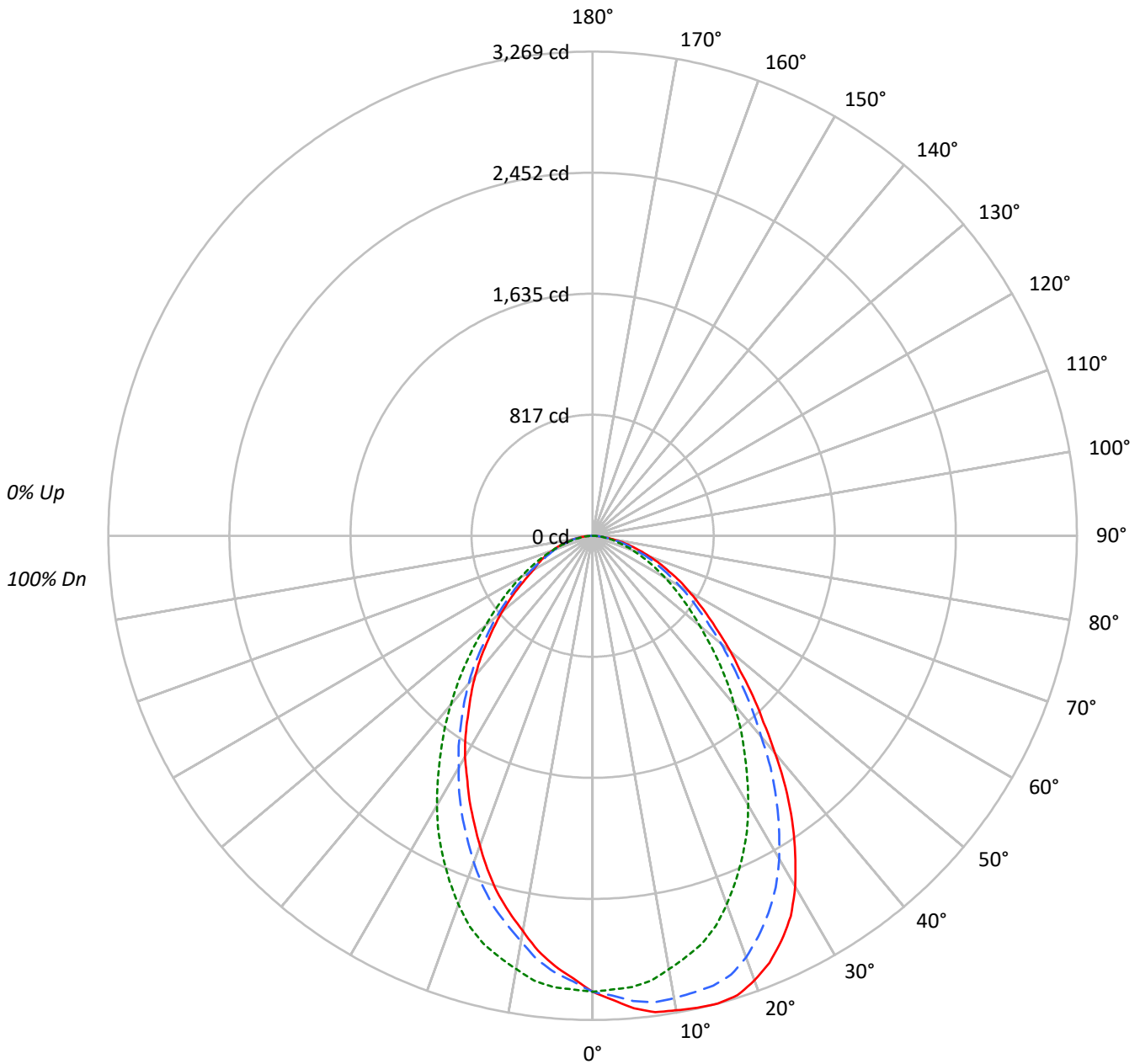
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	168769	168769	168769
5°	176254	168280	160521
10°	181064	165378	150843
15°	185540	161794	141335
20°	186374	154463	129809
25°	182460	144613	119045
30°	173109	132982	109112
35°	157229	119511	97888
40°	137000	106449	88072
45°	118539	93157	77411
50°	103536	80211	67853
55°	91485	70497	58215
60°	82230	61782	50424
65°	73640	53741	48916
70°	65748	45825	45825
75°	57061	38613	43018
80°	45808	32706	39241
85°	31261	28682	33903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	5.0
10°-20°	804.3	14.0
20°-30°	1120.9	19.5
30°-40°	1154.9	20.1
40°-50°	957.2	16.7
50°-60°	687.9	12.0
60°-70°	438.1	7.6
70°-80°	225.0	3.9
80°-90°	57.2	1.0
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°	2214.6	38.6
0°-40°	3369.5	58.8
0°-60°	5014.5	87.4
0°-90°	5734.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5734.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3079	3079	3079	3079	3079	
5°	3203	3153	3058	2958	2917	307
15°	3269	3145	2851	2590	2490	921
25°	3016	2809	2391	2084	1968	1382
35°	2349	2159	1786	1550	1463	1459
45°	1529	1421	1202	1048	998	1183
55°	957	878	738	655	609	862
65°	568	506	414	360	377	569
75°	269	232	182	191	203	287
85°	50	46	46	50	54	64
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°	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6
2.5°	3136.7	3124.2	3107.6	3091.1	3066.2	3037.2	3012.4	3004.1	2991.6
5°	3202.9	3186.4	3153.2	3111.7	3058.0	3004.1	2958.5	2929.4	2917.0
7.5°	3244.4	3223.6	3178.1	3107.6	3028.9	2950.2	2883.8	2842.5	2825.8
10°	3252.7	3232.0	3169.7	3074.5	2970.9	2863.2	2780.3	2730.6	2709.8
12.5°	3265.1	3236.1	3157.3	3045.5	2912.9	2788.6	2685.0	2622.9	2602.2
15°	3269.2	3236.1	3144.9	3008.2	2850.8	2701.5	2589.7	2515.1	2490.3
17.5°	3252.7	3215.3	3107.6	2941.8	2763.7	2606.3	2473.7	2395.0	2361.8
20°	3194.7	3153.2	3028.9	2842.5	2647.7	2481.9	2345.2	2262.4	2225.1
22.5°	3120.1	3066.2	2925.3	2726.5	2523.4	2349.4	2212.7	2129.7	2092.5
25°	3016.5	2966.8	2809.3	2597.9	2390.8	2208.5	2084.1	1997.2	1968.1
27.5°	2896.3	2838.3	2676.7	2465.4	2254.0	2071.7	1951.6	1872.9	1835.6
30°	2734.7	2680.9	2519.2	2307.9	2100.8	1930.9	1806.6	1740.2	1723.7
32.5°	2544.2	2498.6	2341.1	2142.1	1943.3	1785.8	1682.2	1611.8	1595.3
35°	2349.4	2295.5	2158.8	1972.4	1785.8	1645.0	1549.7	1487.5	1462.7
37.5°	2138.0	2088.4	1972.4	1806.6	1640.9	1508.2	1425.4	1371.5	1346.7
40°	1914.4	1877.0	1769.3	1636.7	1487.5	1371.5	1301.1	1255.5	1230.7
42.5°	1707.1	1669.8	1595.3	1471.0	1346.7	1243.1	1180.9	1139.5	1118.8
45°	1529.0	1495.8	1421.2	1313.5	1201.6	1114.7	1048.3	1019.3	998.5
47.5°	1350.8	1334.2	1267.9	1168.4	1064.9	990.3	944.8	911.6	895.0
50°	1214.0	1193.3	1131.2	1027.6	940.5	882.5	841.2	812.1	795.6
52.5°	1073.2	1052.4	994.4	907.4	837.0	783.2	741.7	716.9	700.2
55°	957.2	940.5	878.4	799.7	737.6	692.0	654.6	625.7	609.1
57.5°	849.4	832.9	774.9	700.2	646.4	605.0	571.8	547.0	526.2
60°	750.0	737.6	679.5	609.1	563.5	522.1	493.1	472.3	459.9
62.5°	663.0	638.1	588.3	526.2	484.7	451.7	422.6	410.2	418.5
65°	567.7	555.3	505.5	451.7	414.3	381.2	360.5	368.7	377.1
67.5°	489.0	472.3	431.0	381.2	348.0	323.2	310.7	327.4	331.5
70°	410.2	393.6	356.3	315.0	285.9	269.4	269.4	281.8	285.9
72.5°	335.6	323.2	290.0	256.8	236.2	223.8	232.0	240.3	244.4
75°	269.4	256.8	232.0	203.1	182.3	182.3	190.6	198.8	203.1
77.5°	207.2	198.8	174.0	153.3	145.1	145.1	153.3	157.5	161.6
80°	145.1	136.7	124.3	111.9	103.6	111.9	120.2	120.2	124.3
82.5°	95.3	91.2	82.8	74.6	74.6	78.7	82.8	87.1	87.1
85°	49.7	49.7	45.6	41.5	45.6	49.7	49.7	53.9	53.9
87.5°	16.5	16.5	16.5	16.5	20.7	20.7	20.7	20.7	20.7
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)