

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: P583160

Luminaire Tested: **HC660D010-HM64560830-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583160
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: HC660D010-HM64560830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5674.1 lumens
Efficiency: N/A
Efficacy: 103.2 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

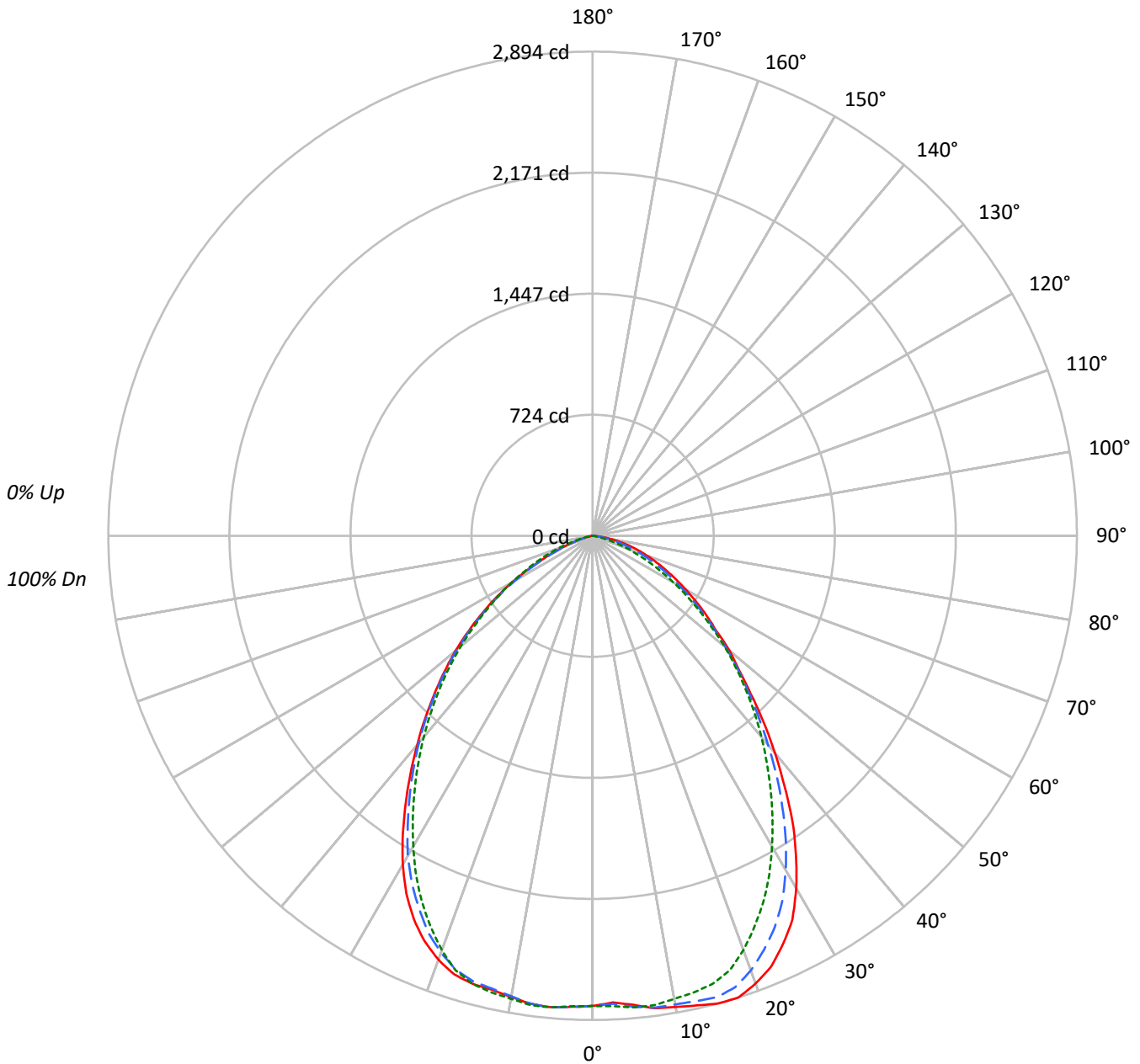
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	60																			
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°	154072	154072	154072
5°	154870	155712	155712
10°	159204	156449	155814
15°	164263	157345	157345
20°	166183	153739	157298
25°	162856	146041	152954
30°	154043	135717	143680
35°	139407	124122	130239
40°	121277	112282	116640
45°	103631	100088	103631
50°	90939	87699	91264
55°	79347	73890	76805
60°	70148	61377	60543
65°	62251	48410	41496
70°	54945	34188	25020
75°	46789	19359	12094
80°	34884	6030	3599
85°	19184	2390	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	4.8
10°-20°	788.8	13.9
20°-30°	1152.0	20.3
30°-40°	1208.2	21.3
40°-50°	1017.9	17.9
50°-60°	713.1	12.6
60°-70°	382.3	6.7
70°-80°	128.2	2.3
80°-90°	14.0	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°	2210.4	39.0
0°-40°	3418.6	60.2
0°-60°	5149.6	90.8
0°-90°	5674.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5674.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2810	2810	2810	2810	2810	
5°	2814	2826	2830	2830	2830	271
15°	2894	2856	2772	2757	2772	816
25°	2692	2578	2414	2456	2529	1233
35°	2083	1976	1855	1908	1946	1293
45°	1337	1314	1291	1325	1337	1041
55°	830	804	773	788	804	747
65°	480	438	373	308	320	479
75°	221	171	91	57	57	234
85°	30	15	4	4	4	42
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°	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5
2.5°	2791.5	2791.5	2799.1	2806.7	2814.3	2814.3	2818.1	2822.0	2818.1
5°	2814.3	2814.3	2825.7	2829.6	2829.6	2825.7	2829.6	2829.6	2829.6
7.5°	2848.6	2841.0	2844.8	2837.2	2829.6	2825.7	2822.0	2822.0	2822.0
10°	2860.0	2852.5	2844.8	2829.6	2810.5	2799.1	2795.2	2799.1	2799.1
12.5°	2875.3	2867.7	2848.6	2818.1	2795.2	2776.3	2772.4	2780.0	2780.0
15°	2894.3	2886.7	2856.2	2806.7	2772.4	2753.4	2757.2	2764.8	2772.4
17.5°	2894.3	2879.1	2829.6	2764.8	2722.9	2703.9	2719.2	2738.1	2749.5
20°	2848.6	2833.4	2764.8	2684.9	2635.3	2623.9	2650.6	2684.9	2696.3
22.5°	2787.7	2757.2	2677.2	2582.0	2528.7	2528.7	2566.8	2608.7	2623.9
25°	2692.4	2669.6	2578.2	2467.7	2414.4	2410.6	2456.3	2513.4	2528.7
27.5°	2585.9	2555.4	2456.3	2342.1	2285.0	2288.8	2338.3	2395.4	2410.6
30°	2433.5	2395.4	2307.8	2197.4	2144.0	2159.3	2208.8	2250.7	2269.8
32.5°	2262.1	2227.9	2147.9	2045.0	1999.3	2014.6	2056.5	2094.6	2109.8
35°	2083.1	2045.0	1976.5	1885.1	1854.7	1869.9	1907.9	1938.4	1946.1
37.5°	1881.3	1854.7	1805.1	1732.8	1710.0	1728.9	1759.4	1778.5	1786.0
40°	1694.7	1671.8	1629.9	1576.7	1569.0	1584.2	1614.7	1626.1	1629.9
42.5°	1511.9	1492.8	1466.2	1428.1	1428.1	1443.4	1470.0	1477.6	1481.4
45°	1336.7	1325.3	1313.8	1283.4	1291.0	1310.1	1325.3	1336.7	1336.7
47.5°	1184.4	1188.2	1173.0	1150.1	1157.7	1176.8	1188.2	1199.6	1199.6
50°	1066.3	1054.9	1039.7	1016.8	1028.3	1043.5	1058.7	1066.3	1070.1
52.5°	929.2	925.5	914.0	887.3	895.0	902.6	917.8	929.2	933.0
55°	830.2	818.8	803.6	773.1	773.1	780.7	788.3	795.9	803.6
57.5°	735.0	723.6	700.8	666.4	662.6	662.6	658.9	666.4	677.8
60°	639.8	636.0	601.7	571.2	559.8	548.4	533.2	537.0	552.2
62.5°	556.1	548.4	517.9	479.9	457.0	437.9	418.9	415.1	430.3
65°	479.9	472.2	437.9	399.9	373.2	338.9	308.5	308.5	319.9
67.5°	411.3	396.0	365.6	323.7	289.4	247.5	217.0	224.7	228.5
70°	342.8	331.4	297.1	255.2	213.3	171.3	152.4	156.1	156.1
72.5°	281.8	266.6	232.3	190.4	148.5	110.5	102.8	99.0	99.0
75°	220.9	205.6	171.3	129.5	91.4	64.8	57.1	57.1	57.1
77.5°	159.9	148.5	118.1	80.0	49.5	30.5	26.6	22.8	22.8
80°	110.5	99.0	72.3	41.9	19.1	11.4	11.4	11.4	11.4
82.5°	64.8	53.3	34.3	19.1	7.7	3.8	3.8	3.8	3.8
85°	30.5	22.8	15.2	7.7	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	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



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







(END OF REPORT)