

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: P583203

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583203
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: HC660D010-HM64560840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5250.0 lumens
Efficiency: N/A
Efficacy: 95.5 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

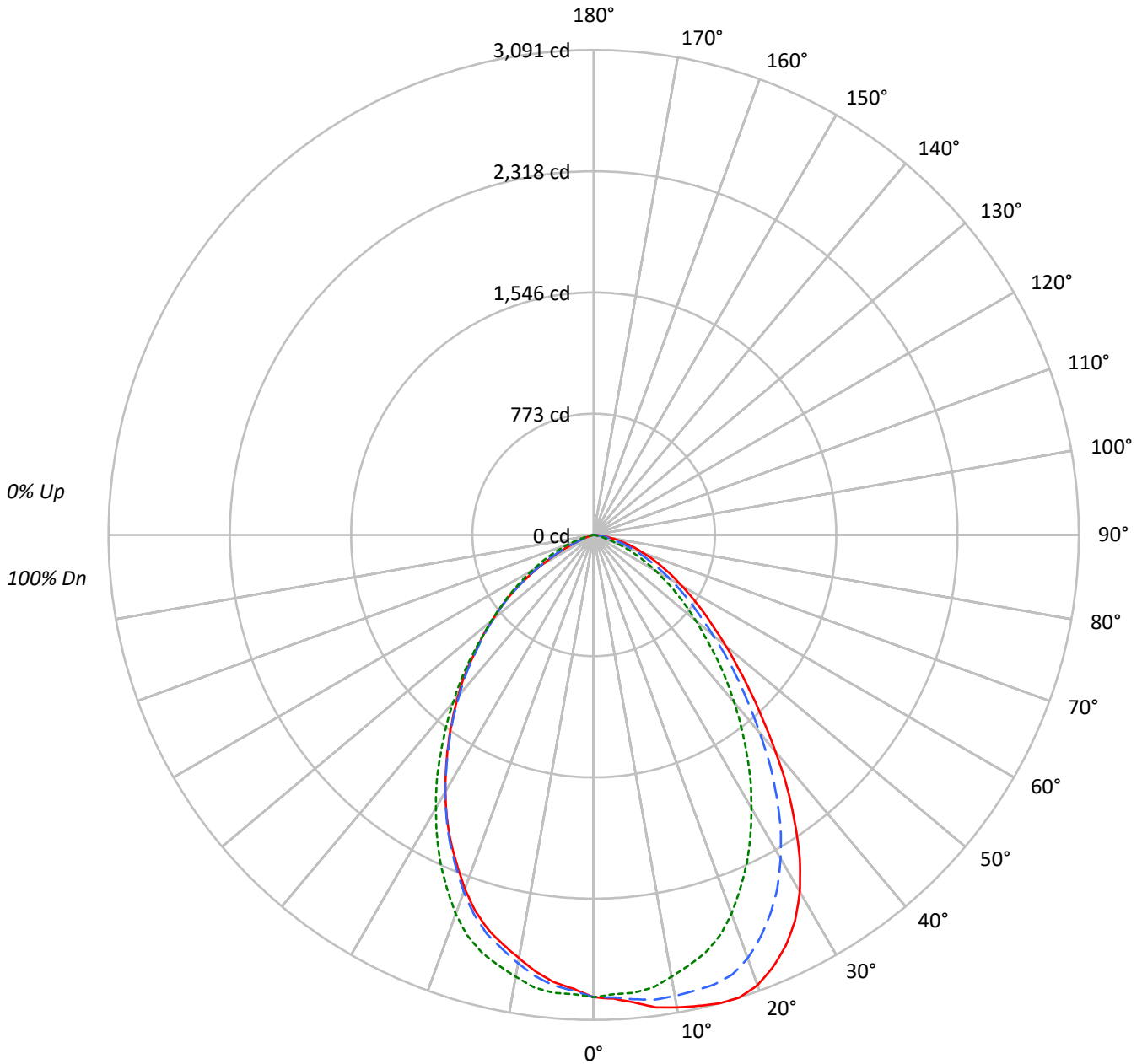
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	161506	161506	161506
5°	164626	161209	157561
10°	170226	159154	152463
15°	175432	156380	147685
20°	178160	149871	139960
25°	174942	139599	130332
30°	166291	127209	119607
35°	149466	113696	107867
40°	128992	99630	96373
45°	109221	85769	83520
50°	93643	72441	71742
55°	81182	60987	58617
60°	70872	49525	41795
65°	62341	38162	23115
70°	53791	25245	11284
75°	45645	12285	4384
80°	35326	5209	2620
85°	20882	2579	2579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	5.3
10°-20°	786.2	15.0
20°-30°	1107.1	21.1
30°-40°	1131.2	21.5
40°-50°	912.0	17.4
50°-60°	611.7	11.7
60°-70°	309.6	5.9
70°-80°	99.0	1.9
80°-90°	15.2	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°	2171.3	41.4
0°-40°	3302.5	62.9
0°-60°	4826.3	91.9
0°-90°	5250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2946	2946	2946	2946	2946	
5°	2992	2971	2930	2884	2863	288
15°	3091	2967	2755	2631	2602	873
25°	2892	2664	2308	2167	2155	1324
35°	2233	2030	1699	1604	1612	1390
45°	1409	1297	1106	1069	1077	1096
55°	849	754	638	609	613	764
65°	481	398	294	195	178	480
75°	216	153	58	21	21	231
85°	33	16	4	4	4	45
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°	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1
2.5°	2958.5	2954.4	2950.3	2942.0	2929.5	2917.1	2908.8	2900.5	2896.4
5°	2991.6	2983.3	2970.9	2954.4	2929.5	2900.5	2884.0	2867.3	2863.2
7.5°	3037.2	3020.7	2987.5	2950.3	2908.8	2867.3	2838.4	2821.7	2809.3
10°	3058.0	3028.9	2983.3	2921.2	2859.1	2809.3	2772.1	2747.2	2738.9
12.5°	3074.5	3041.3	2975.1	2892.2	2809.3	2743.0	2701.6	2680.9	2672.6
15°	3091.1	3058.0	2966.8	2859.1	2755.4	2676.8	2631.2	2610.5	2602.2
17.5°	3091.1	3045.5	2937.7	2801.0	2676.8	2581.4	2535.8	2515.1	2511.0
20°	3053.9	3004.1	2871.5	2709.8	2569.0	2461.3	2419.8	2407.4	2399.1
22.5°	2983.3	2925.3	2776.2	2593.8	2440.6	2337.0	2291.4	2283.1	2274.8
25°	2892.2	2834.2	2664.3	2469.5	2307.9	2204.4	2167.1	2158.8	2154.7
27.5°	2776.2	2714.1	2535.8	2337.0	2163.0	2063.5	2030.4	2030.4	2026.3
30°	2627.0	2556.6	2382.6	2183.6	2009.6	1918.5	1893.6	1893.6	1889.5
32.5°	2444.7	2374.3	2216.8	2026.3	1860.5	1765.2	1744.5	1752.8	1748.6
35°	2233.4	2175.4	2030.4	1843.9	1698.9	1611.8	1603.6	1611.8	1611.8
37.5°	2022.0	1968.1	1843.9	1682.2	1545.5	1466.9	1466.9	1479.3	1475.1
40°	1802.5	1761.0	1645.0	1504.1	1392.2	1338.3	1330.1	1342.6	1346.7
42.5°	1595.3	1562.1	1462.7	1346.7	1247.2	1193.4	1205.8	1214.0	1218.2
45°	1408.8	1375.7	1297.0	1176.8	1106.3	1069.1	1069.1	1081.5	1077.3
47.5°	1243.1	1218.2	1139.5	1023.5	961.3	944.8	953.1	961.3	961.3
50°	1098.0	1060.8	986.1	895.0	849.4	828.8	837.0	841.2	841.2
52.5°	961.3	936.4	861.9	779.0	737.6	725.2	725.2	729.3	729.3
55°	849.4	820.4	754.1	671.3	638.1	621.5	609.1	605.0	613.3
57.5°	741.7	716.9	654.6	575.9	538.6	522.1	497.3	489.0	497.3
60°	646.4	625.7	563.5	489.0	451.7	418.5	389.5	373.0	381.2
62.5°	563.5	538.6	476.5	414.3	373.0	335.6	290.0	265.2	277.6
65°	480.6	459.9	397.8	335.6	294.2	248.6	194.7	178.2	178.2
67.5°	406.1	385.4	327.4	273.5	223.8	169.9	120.2	116.0	120.2
70°	335.6	315.0	265.2	211.4	157.5	103.6	70.4	70.4	70.4
72.5°	277.6	252.7	207.2	153.3	99.5	53.9	37.3	41.5	41.5
75°	215.5	194.7	153.3	103.6	58.0	24.8	20.7	20.7	20.7
77.5°	161.6	145.1	107.7	66.3	29.1	8.3	8.3	8.3	8.3
80°	111.9	95.3	70.4	41.5	16.5	8.3	8.3	8.3	8.3
82.5°	66.3	58.0	41.5	20.7	8.3	4.1	4.1	4.1	4.1
85°	33.2	29.1	16.5	8.3	4.1	4.1	4.1	4.1	4.1
87.5°	8.3	8.3	4.1	4.1	0.0	4.1	4.1	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)