

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: P583205

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560840-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5937.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

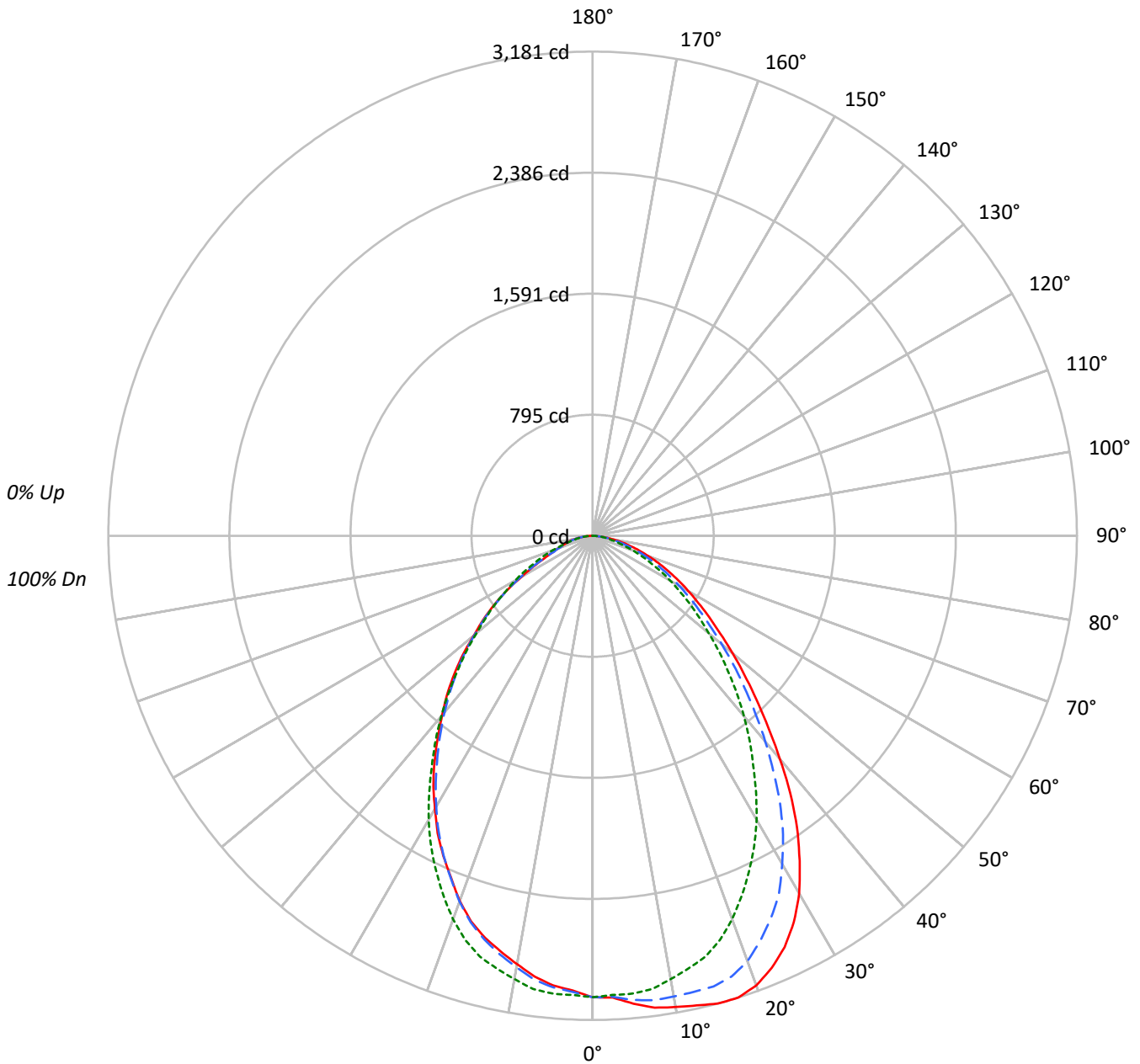
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	166215	166215	166215
5°	169816	166167	163207
10°	175008	164632	159099
15°	180546	162441	155154
20°	183410	156347	148856
25°	180391	147075	140306
30°	171742	136344	131102
35°	156620	123085	121137
40°	136949	110571	109970
45°	117857	97305	99553
50°	102453	84782	86547
55°	89469	74425	75228
60°	79467	64490	59041
65°	70916	54260	45128
70°	62414	44479	37843
75°	53503	35097	35965
80°	43156	30086	35295
85°	28682	26103	31261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	4.8
10°-20°	817.3	13.8
20°-30°	1166.6	19.6
30°-40°	1222.0	20.6
40°-50°	1028.9	17.3
50°-60°	732.3	12.3
60°-70°	428.6	7.2
70°-80°	202.8	3.4
80°-90°	52.2	0.9
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°	2271.0	38.2
0°-40°	3493.0	58.8
0°-60°	5254.2	88.5
0°-90°	5937.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5937.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3032	3032	3032	3032	3032	
5°	3086	3061	3020	2978	2966	297
15°	3181	3065	2862	2746	2734	898
25°	2982	2771	2432	2316	2320	1365
35°	2340	2146	1839	1777	1810	1454
45°	1520	1408	1255	1259	1284	1180
55°	936	857	779	779	787	844
65°	547	485	418	352	348	545
75°	253	211	166	162	170	271
85°	46	37	42	50	50	59
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°	3032.0	3032.0	3032.0	3032.0	3032.0	3032.0	3032.0	3032.0	3032.0
2.5°	3036.2	3036.2	3032.0	3027.9	3019.6	3007.2	2999.0	2990.6	2990.6
5°	3085.9	3077.6	3061.1	3040.3	3019.6	2994.7	2978.2	2965.8	2965.8
7.5°	3127.3	3110.7	3077.6	3040.3	3003.1	2969.9	2941.0	2924.3	2920.2
10°	3143.9	3123.2	3073.5	3015.5	2957.5	2911.9	2878.7	2858.1	2858.1
12.5°	3160.4	3135.6	3069.4	2986.5	2911.9	2849.8	2816.6	2800.1	2795.9
15°	3181.2	3148.0	3065.2	2961.6	2862.2	2791.8	2746.2	2733.8	2733.8
17.5°	3181.2	3139.7	3036.2	2907.8	2783.5	2704.9	2663.4	2651.0	2655.1
20°	3143.9	3098.3	2974.0	2816.6	2680.0	2597.2	2555.7	2547.4	2551.6
22.5°	3073.5	3019.6	2878.7	2709.0	2559.8	2472.8	2435.6	2435.6	2431.5
25°	2982.3	2924.3	2771.1	2593.0	2431.5	2344.4	2315.5	2319.6	2319.6
27.5°	2862.2	2804.2	2651.0	2460.4	2298.8	2211.9	2191.2	2199.5	2203.6
30°	2713.1	2651.0	2489.4	2303.1	2153.9	2067.0	2054.5	2067.0	2071.1
32.5°	2530.8	2485.3	2327.9	2137.4	1996.5	1922.0	1917.8	1930.2	1946.8
35°	2340.3	2290.6	2145.6	1971.7	1839.2	1777.0	1777.0	1797.7	1810.1
37.5°	2133.2	2083.5	1951.0	1806.0	1694.1	1636.1	1644.4	1665.2	1669.3
40°	1913.7	1876.4	1764.5	1640.3	1545.1	1499.5	1511.9	1532.6	1536.7
42.5°	1706.5	1673.4	1582.3	1470.4	1400.0	1367.0	1383.5	1408.3	1416.6
45°	1520.2	1482.8	1408.3	1313.1	1255.1	1238.5	1259.2	1275.8	1284.1
47.5°	1350.3	1317.2	1255.1	1168.1	1126.6	1118.4	1139.1	1147.4	1155.7
50°	1201.3	1168.1	1106.0	1027.3	994.1	994.1	1010.6	1018.9	1014.8
52.5°	1056.2	1027.3	969.3	902.9	882.3	882.3	894.7	898.8	907.2
55°	936.1	907.2	857.4	795.3	778.7	770.4	778.7	778.7	787.1
57.5°	824.3	799.5	753.9	695.9	675.2	666.8	662.7	658.6	666.8
60°	724.8	704.2	654.4	604.7	588.2	567.5	551.0	534.3	538.5
62.5°	633.8	613.1	567.5	517.8	501.2	472.2	451.5	430.7	439.1
65°	546.7	526.0	484.6	443.2	418.3	385.3	352.1	339.7	347.9
67.5°	468.1	451.5	410.1	368.6	347.9	310.6	277.5	277.5	281.7
70°	389.4	372.8	339.7	302.4	277.5	244.4	232.0	236.1	236.1
72.5°	318.9	306.5	273.4	240.2	215.4	194.6	194.6	198.8	202.9
75°	252.6	244.4	211.3	182.2	165.7	153.3	161.6	165.7	169.8
77.5°	194.6	182.2	157.4	136.7	124.3	128.4	136.7	140.8	144.9
80°	136.7	132.5	111.8	99.4	95.3	99.4	107.7	111.8	111.8
82.5°	86.9	82.8	70.4	66.3	66.3	70.4	78.7	78.7	78.7
85°	45.6	41.5	37.3	37.3	41.5	45.6	49.7	49.7	49.7
87.5°	16.5	12.4	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)