

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: P583142

Luminaire Tested: **HC660D010-HM64560827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583142
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-HM64560827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5254.1 lumens
Efficiency: N/A
Efficacy: 95.5 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

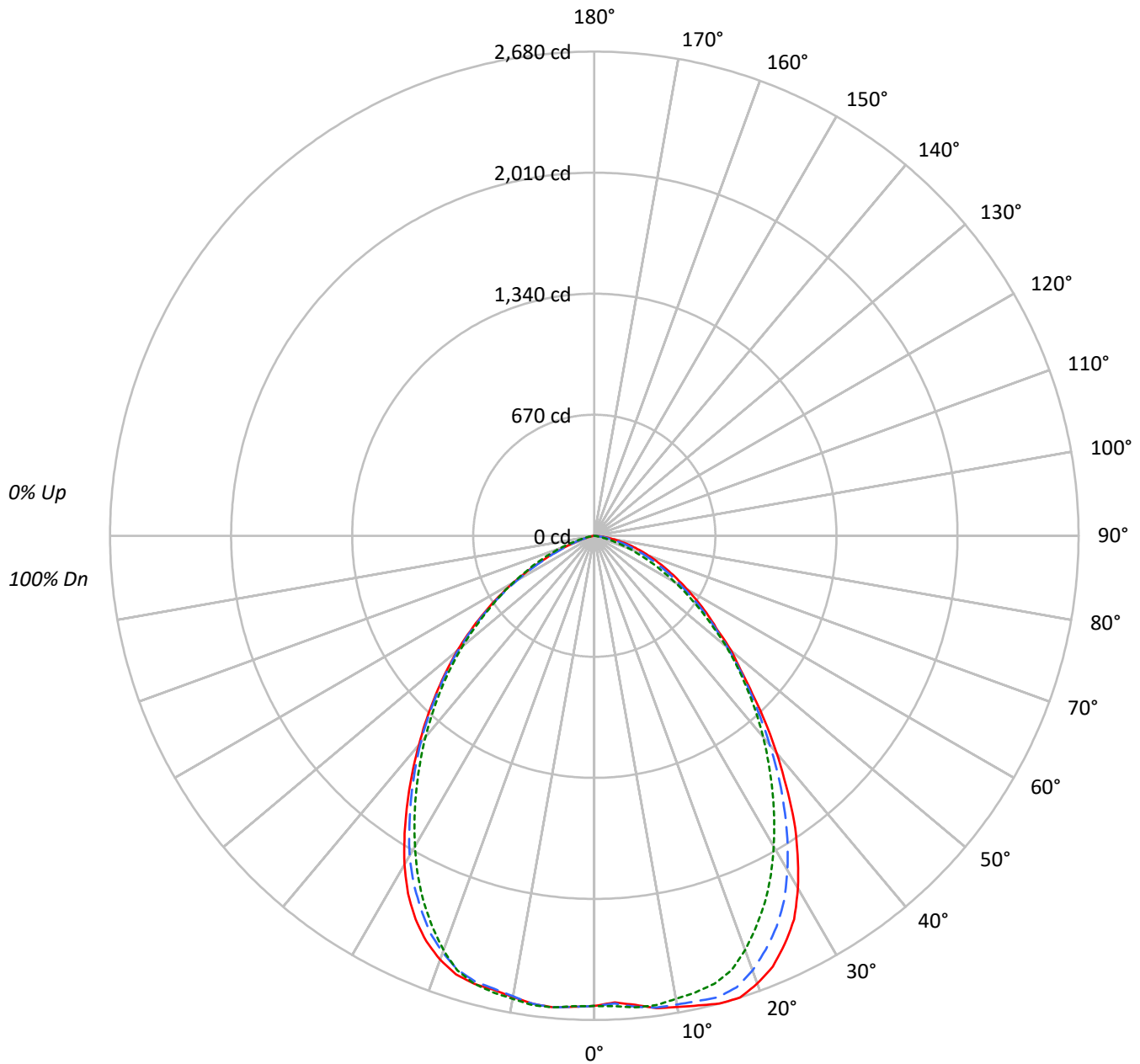
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583142

CATALOG NUMBER: HC660D010-HM64560827-61RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583142

CATALOG NUMBER: HC660D010-HM64560827-61RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	142669	142669	142669
5°	143407	144183	144183
10°	147420	144870	144286
15°	152106	145699	145699
20°	153885	142357	145653
25°	150801	135232	141631
30°	142642	125671	133046
35°	129095	114934	120595
40°	112296	103973	108010
45°	95963	92684	95963
50°	84219	81208	84509
55°	73479	68423	71109
60°	64951	56827	56070
65°	57646	44830	38422
70°	50874	31656	23177
75°	43315	17919	11205
80°	32264	5556	3315
85°	17738	2201	2201



TEST NUMBER: P583142

CATALOG NUMBER: HC660D010-HM64560827-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	4.8
10°-20°	730.4	13.9
20°-30°	1066.8	20.3
30°-40°	1118.8	21.3
40°-50°	942.5	17.9
50°-60°	660.4	12.6
60°-70°	354.0	6.7
70°-80°	118.7	2.3
80°-90°	12.9	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°	2046.8	39.0
0°-40°	3165.5	60.2
0°-60°	4768.4	90.8
0°-90°	5254.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5254.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2602	2602	2602	2602	2602	
5°	2606	2617	2620	2620	2620	251
15°	2680	2645	2567	2553	2567	756
25°	2493	2387	2236	2275	2342	1142
35°	1929	1830	1717	1767	1802	1197
45°	1238	1217	1196	1227	1238	964
55°	769	744	716	730	744	692
65°	444	406	346	286	296	444
75°	204	159	85	53	53	217
85°	28	14	4	4	4	39
90°	0	0	0	0	0	



TEST NUMBER: P583142

CATALOG NUMBER: HC660D010-HM64560827-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5
2.5°	2584.9	2584.9	2592.0	2598.9	2606.0	2606.0	2609.6	2613.0	2609.6
5°	2606.0	2606.0	2616.6	2620.1	2620.1	2616.6	2620.1	2620.1	2620.1
7.5°	2637.8	2630.7	2634.2	2627.2	2620.1	2616.6	2613.0	2613.0	2613.0
10°	2648.3	2641.3	2634.2	2620.1	2602.5	2592.0	2588.4	2592.0	2592.0
12.5°	2662.5	2655.4	2637.8	2609.6	2588.4	2570.8	2567.2	2574.3	2574.3
15°	2680.1	2673.0	2644.9	2598.9	2567.2	2549.6	2553.1	2560.2	2567.2
17.5°	2680.1	2665.9	2620.1	2560.2	2521.4	2503.8	2517.9	2535.5	2546.0
20°	2637.8	2623.7	2560.2	2486.2	2440.2	2429.7	2454.4	2486.2	2496.7
22.5°	2581.3	2553.1	2479.1	2390.9	2341.5	2341.5	2376.8	2415.6	2429.7
25°	2493.1	2472.1	2387.3	2285.1	2235.7	2232.2	2274.6	2327.5	2341.5
27.5°	2394.4	2366.3	2274.6	2168.8	2115.9	2119.4	2165.2	2218.1	2232.2
30°	2253.4	2218.1	2137.0	2034.8	1985.3	1999.5	2045.3	2084.1	2101.8
32.5°	2094.7	2063.0	1988.9	1893.7	1851.4	1865.4	1904.3	1939.5	1953.6
35°	1929.0	1893.7	1830.2	1745.6	1717.4	1731.5	1766.7	1794.9	1802.0
37.5°	1742.0	1717.4	1671.5	1604.5	1583.3	1601.0	1629.2	1646.9	1653.9
40°	1569.2	1548.1	1509.3	1459.9	1452.9	1467.0	1495.2	1505.8	1509.3
42.5°	1400.0	1382.4	1357.6	1322.4	1322.4	1336.6	1361.2	1368.3	1371.8
45°	1237.8	1227.2	1216.6	1188.4	1195.5	1213.1	1227.2	1237.8	1237.8
47.5°	1096.7	1100.2	1086.2	1065.0	1072.1	1089.7	1100.2	1110.8	1110.8
50°	987.5	976.8	962.7	941.5	952.2	966.3	980.4	987.5	990.9
52.5°	860.5	856.9	846.4	821.7	828.8	835.7	849.8	860.5	864.0
55°	768.8	758.2	744.0	715.9	715.9	723.0	729.9	737.0	744.0
57.5°	680.6	670.1	648.9	617.2	613.6	613.6	610.1	617.2	627.7
60°	592.4	588.9	557.2	529.0	518.3	507.8	493.7	497.3	511.4
62.5°	514.9	507.8	479.6	444.4	423.2	405.6	387.9	384.4	398.5
65°	444.4	437.3	405.6	370.3	345.6	313.8	285.7	285.7	296.2
67.5°	380.8	366.7	338.6	299.8	268.0	229.2	201.0	208.0	211.6
70°	317.4	306.7	275.0	236.2	197.5	158.7	141.1	144.6	144.6
72.5°	260.9	246.9	215.1	176.3	137.5	102.2	95.3	91.7	91.7
75°	204.5	190.4	158.7	119.9	84.6	60.0	52.9	52.9	52.9
77.5°	148.2	137.5	109.3	74.1	45.8	28.2	24.7	21.2	21.2
80°	102.2	91.7	67.0	38.8	17.6	10.5	10.5	10.5	10.5
82.5°	60.0	49.4	31.7	17.6	7.1	3.5	3.5	3.5	3.5
85°	28.2	21.2	14.1	7.1	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)