

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: P583221

Luminaire Tested: **HC660D010-HM64560927-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583221
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-HM64560927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3715.0 lumens
Efficiency: N/A
Efficacy: 67.5 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

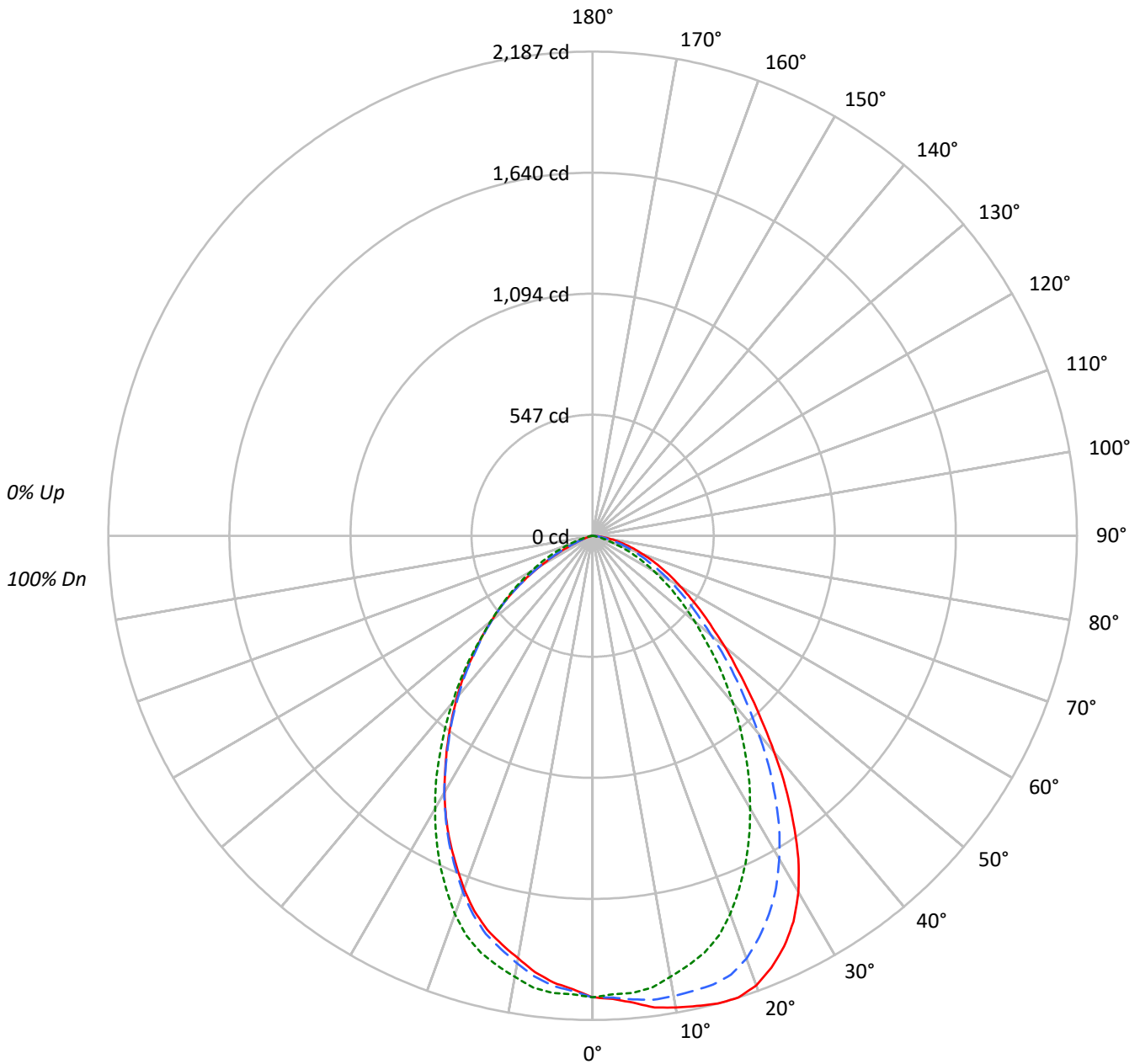
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583221

CATALOG NUMBER: HC660D010-HM64560927-61WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P583221

CATALOG NUMBER: HC660D010-HM64560927-61WWBB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	114284	114284	114284
5°	116498	114071	111490
10°	120455	112618	107886
15°	124138	110659	104507
20°	126069	106053	99041
25°	123787	98782	92225
30°	117670	90020	84633
35°	105765	80455	76332
40°	91278	70496	68199
45°	77287	60688	59099
50°	66266	51265	50762
55°	57451	43162	41480
60°	50149	35041	29570
65°	44116	27007	16357
70°	38067	17872	7982
75°	32301	8684	3092
80°	25003	3725	1863
85°	14781	1824	1824



TEST NUMBER: P583221

CATALOG NUMBER: HC660D010-HM64560927-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	5.3
10°-20°	556.3	15.0
20°-30°	783.4	21.1
30°-40°	800.4	21.5
40°-50°	645.4	17.4
50°-60°	432.9	11.7
60°-70°	219.1	5.9
70°-80°	70.0	1.9
80°-90°	10.8	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°	1536.5	41.4
0°-40°	2336.9	62.9
0°-60°	3415.2	91.9
0°-90°	3715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3715.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2085	2085	2085	2085	2085	
5°	2117	2102	2073	2041	2026	204
15°	2187	2099	1950	1862	1841	618
25°	2046	1885	1633	1534	1525	937
35°	1580	1437	1202	1135	1141	984
45°	997	918	783	756	762	775
55°	601	534	452	431	434	541
65°	340	282	208	138	126	339
75°	152	108	41	15	15	164
85°	24	12	3	3	3	32
90°	0	0	0	0	0	



TEST NUMBER: P583221

CATALOG NUMBER: HC660D010-HM64560927-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2093.5	2090.6	2087.7	2081.8	2072.9	2064.2	2058.3	2052.4	2049.5
5°	2117.0	2111.1	2102.3	2090.6	2072.9	2052.4	2040.8	2029.0	2026.0
7.5°	2149.2	2137.5	2114.0	2087.7	2058.3	2029.0	2008.5	1996.8	1988.0
10°	2163.9	2143.4	2111.1	2067.1	2023.1	1988.0	1961.6	1944.0	1938.1
12.5°	2175.6	2152.1	2105.2	2046.5	1988.0	1941.1	1911.7	1897.1	1891.2
15°	2187.3	2163.9	2099.3	2023.1	1949.8	1894.2	1861.9	1847.3	1841.4
17.5°	2187.3	2155.1	2078.8	1982.1	1894.2	1826.6	1794.5	1779.7	1776.8
20°	2161.0	2125.7	2031.9	1917.6	1817.9	1741.7	1712.3	1703.5	1697.7
22.5°	2111.1	2070.1	1964.5	1835.5	1727.0	1653.7	1621.5	1615.6	1609.7
25°	2046.5	2005.5	1885.3	1747.6	1633.1	1559.9	1533.5	1527.6	1524.7
27.5°	1964.5	1920.6	1794.5	1653.7	1530.5	1460.2	1436.7	1436.7	1433.8
30°	1858.9	1809.1	1685.9	1545.2	1422.1	1357.5	1340.0	1340.0	1337.0
32.5°	1729.9	1680.1	1568.7	1433.8	1316.5	1249.1	1234.4	1240.3	1237.3
35°	1580.4	1539.3	1436.7	1304.7	1202.2	1140.6	1134.7	1140.6	1140.6
37.5°	1430.8	1392.8	1304.7	1190.4	1093.7	1037.9	1037.9	1046.8	1043.8
40°	1275.5	1246.2	1164.0	1064.3	985.1	947.1	941.2	950.0	953.0
42.5°	1128.9	1105.3	1035.0	953.0	882.5	844.4	853.3	859.1	862.0
45°	996.9	973.5	917.7	832.7	782.8	756.4	756.4	765.3	762.3
47.5°	879.7	862.0	806.4	724.2	680.3	668.5	674.4	680.3	680.3
50°	777.0	750.6	697.8	633.3	601.1	586.4	592.3	595.2	595.2
52.5°	680.3	662.6	609.8	551.3	521.9	513.1	513.1	516.0	516.0
55°	601.1	580.6	533.7	475.0	451.6	439.8	431.1	428.1	434.0
57.5°	524.9	507.3	463.2	407.6	381.2	369.4	351.9	346.0	351.9
60°	457.4	442.7	398.8	346.0	319.6	296.1	275.6	263.9	269.7
62.5°	398.8	381.2	337.1	293.2	263.9	237.5	205.3	187.6	196.4
65°	340.1	325.5	281.5	237.5	208.2	175.9	137.8	126.1	126.1
67.5°	287.3	272.7	231.7	193.5	158.4	120.2	85.1	82.1	85.1
70°	237.5	222.8	187.6	149.5	111.5	73.3	49.8	49.8	49.8
72.5°	196.4	178.9	146.6	108.5	70.4	38.1	26.4	29.3	29.3
75°	152.5	137.8	108.5	73.3	41.0	17.6	14.6	14.6	14.6
77.5°	114.3	102.6	76.2	46.9	20.5	5.9	5.9	5.9	5.9
80°	79.2	67.4	49.8	29.3	11.8	5.9	5.9	5.9	5.9
82.5°	46.9	41.0	29.3	14.6	5.9	2.9	2.9	2.9	2.9
85°	23.5	20.5	11.8	5.9	2.9	2.9	2.9	2.9	2.9
87.5°	5.9	5.9	2.9	2.9	0.0	2.9	2.9	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)