

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P582441

Luminaire Tested: **HCC6W40D010MW-HM63040830-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W40D010MW-HM63040830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

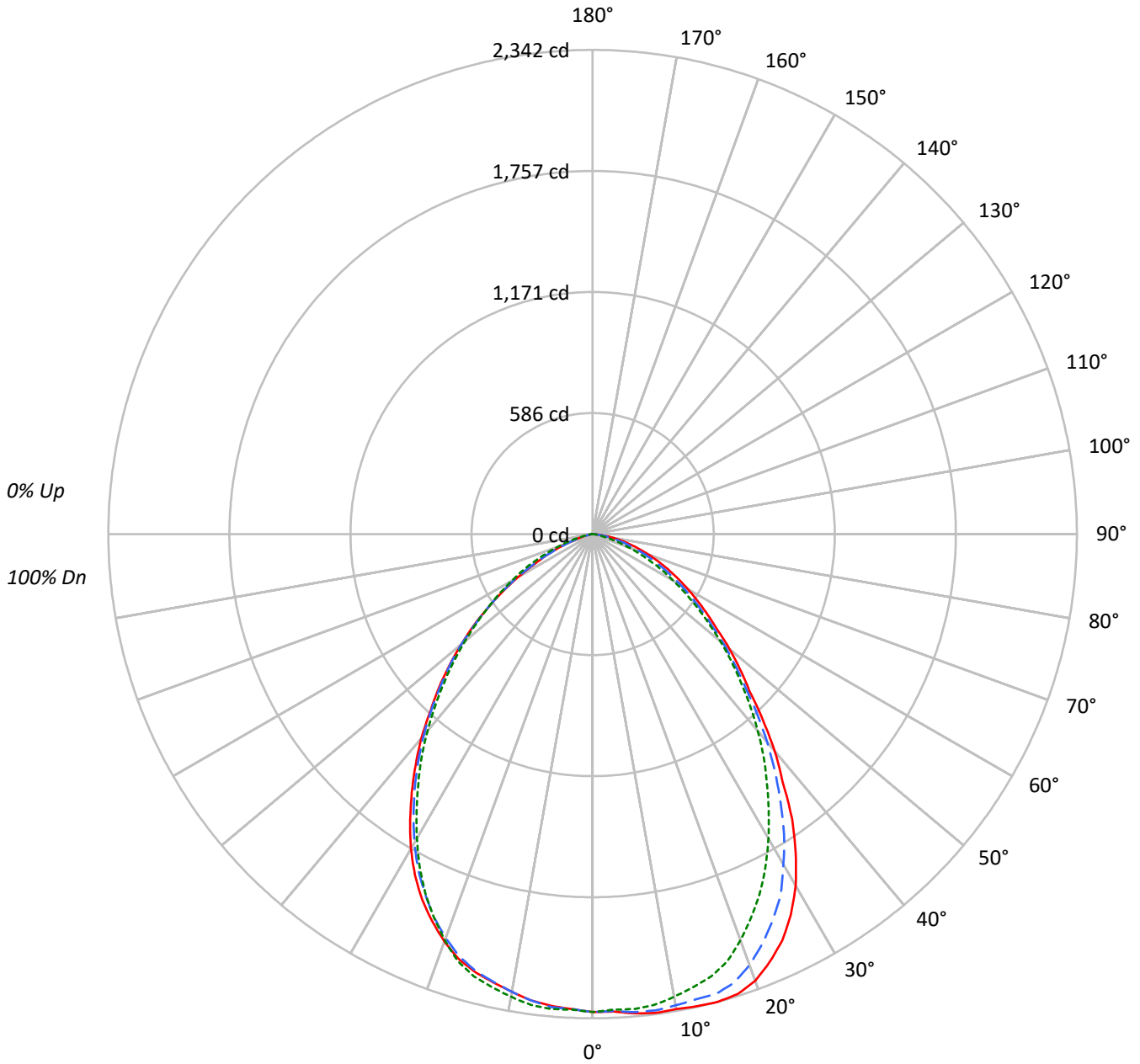
Lumens per Lamp: N/A
Luminaire Lumens: 4530.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P582441
CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P582441

CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
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	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	126733	126733	126733
5°	128054	126882	126051
10°	129868	126501	125148
15°	132924	125704	124496
20°	134161	121962	122318
25°	131227	115827	118029
30°	124291	107599	111239
35°	112538	98343	101997
40°	98005	88895	92151
45°	83156	78690	81512
50°	73644	68731	70539
55°	64877	58779	58493
60°	58131	49503	45512
65°	51873	39693	32623
70°	45649	28643	20404
75°	38507	17326	11544
80°	29644	7671	4799
85°	17171	1887	1887



TEST NUMBER: P582441

CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	4.8
10°-20°	630.7	13.9
20°-30°	911.7	20.1
30°-40°	959.3	21.2
40°-50°	806.4	17.8
50°-60°	566.0	12.5
60°-70°	311.4	6.9
70°-80°	110.6	2.4
80°-90°	14.5	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°	1761.8	38.9
0°-40°	2721.2	60.1
0°-60°	4093.6	90.4
0°-90°	4530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4530.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2312	2312	2312	2312	2312	
5°	2327	2321	2306	2297	2291	222
15°	2342	2303	2215	2188	2194	661
25°	2170	2060	1915	1918	1951	992
35°	1682	1585	1470	1500	1524	1042
45°	1073	1042	1015	1039	1051	841
55°	679	642	615	615	612	611
65°	400	358	306	252	252	398
75°	182	146	82	54	54	195
85°	27	15	3	3	3	37
90°	0	0	0	0	0	



TEST NUMBER: P582441

CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8
2.5°	2311.8	2311.8	2308.8	2308.8	2302.7	2302.7	2299.7	2299.7	2299.7
5°	2327.0	2327.0	2320.9	2311.8	2305.7	2296.6	2296.6	2293.6	2290.6
7.5°	2336.1	2333.0	2323.9	2311.8	2296.6	2281.6	2275.5	2278.6	2275.5
10°	2333.0	2327.0	2314.8	2290.6	2272.5	2251.3	2248.2	2245.2	2248.2
12.5°	2339.1	2330.0	2305.7	2275.5	2245.2	2220.9	2217.9	2217.9	2220.9
15°	2342.1	2333.0	2302.7	2257.3	2214.9	2190.6	2187.6	2190.6	2193.6
17.5°	2333.0	2320.9	2275.5	2214.9	2166.5	2142.2	2142.2	2148.3	2154.3
20°	2299.7	2281.6	2217.9	2145.2	2090.6	2072.4	2078.5	2090.6	2096.7
22.5°	2239.1	2217.9	2145.2	2063.4	2005.8	1990.6	2005.8	2021.0	2027.0
25°	2169.5	2145.2	2060.4	1975.5	1914.9	1896.7	1918.0	1942.2	1951.3
27.5°	2075.4	2048.3	1969.4	1872.5	1811.9	1802.8	1827.1	1854.4	1860.3
30°	1963.5	1933.1	1845.3	1754.3	1699.8	1696.8	1724.1	1748.3	1757.3
32.5°	1827.1	1799.8	1724.1	1633.2	1584.6	1584.6	1611.9	1633.2	1642.3
35°	1681.6	1651.3	1584.6	1508.9	1469.5	1472.5	1499.8	1515.0	1524.1
37.5°	1508.9	1499.8	1448.3	1384.7	1357.4	1363.5	1384.7	1396.8	1405.9
40°	1369.5	1345.2	1312.0	1260.4	1242.2	1248.3	1269.5	1281.7	1287.7
42.5°	1218.1	1202.9	1175.6	1139.2	1127.1	1136.2	1154.4	1163.5	1160.5
45°	1072.6	1069.6	1042.3	1021.0	1015.0	1027.1	1039.2	1048.3	1051.4
47.5°	966.6	954.4	930.2	915.0	908.9	921.1	933.2	939.3	939.3
50°	863.5	851.4	827.1	812.0	805.9	818.0	827.1	833.2	827.1
52.5°	760.5	748.4	727.2	709.0	705.9	712.0	715.0	718.1	724.1
55°	678.8	666.6	642.4	621.1	615.0	618.1	615.0	615.0	612.0
57.5°	599.9	587.7	563.6	539.3	530.2	527.2	518.1	515.1	512.0
60°	530.2	515.1	490.8	463.6	451.5	439.4	424.2	415.1	415.1
62.5°	463.6	448.5	421.2	396.9	378.7	357.6	333.3	321.2	321.2
65°	399.9	387.8	357.6	330.3	306.0	278.7	251.5	245.5	251.5
67.5°	339.4	327.2	296.9	269.6	239.4	206.0	181.8	181.8	187.8
70°	284.8	272.6	245.5	212.1	178.7	145.5	127.3	127.3	127.3
72.5°	233.3	221.2	190.9	160.5	127.3	93.9	84.8	87.8	84.8
75°	181.8	172.7	145.5	112.1	81.8	57.5	54.5	51.6	54.5
77.5°	136.4	127.3	103.0	72.7	45.5	33.4	30.3	30.3	30.3
80°	93.9	84.8	66.6	42.5	24.3	15.2	15.2	15.2	15.2
82.5°	57.5	48.5	36.4	21.2	9.1	9.1	9.1	9.1	9.1
85°	27.3	21.2	15.2	6.1	3.0	3.0	3.0	3.0	3.0
87.5°	6.1	6.1	3.0	3.0	0.0	3.0	3.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)