

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: P582440

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582440
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: HCC6W40D010MW-HM63040830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

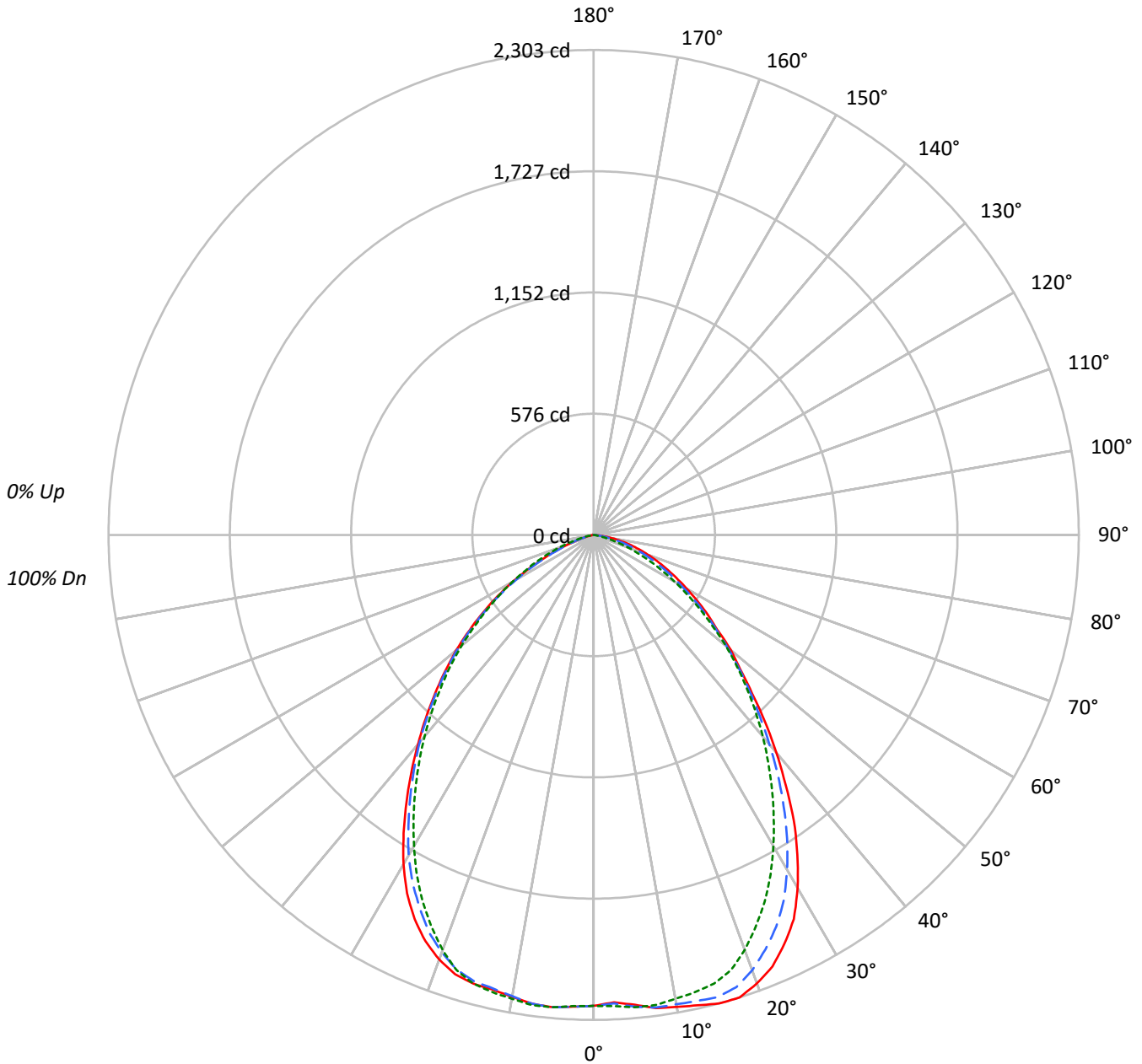
Lumens per Lamp: N/A
Luminaire Lumens: 4514.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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



TEST NUMBER: P582440
CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P582440

CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWC

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	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°	122600	122600	122600
5°	123233	123899	123899
10°	126679	124491	123985
15°	130704	125199	125199
20°	132230	122330	125159
25°	129594	116202	121707
30°	122569	107991	114321
35°	110932	98758	103630
40°	96495	89339	92817
45°	82458	79636	82458
50°	72364	69780	72620
55°	63138	58798	61102
60°	55818	48834	48176
65°	49538	38513	33026
70°	43725	27216	19907
75°	37215	15399	9637
80°	27718	4799	2873
85°	15284	1887	1887



TEST NUMBER: P582440
 CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	4.8
10°-20°	627.6	13.9
20°-30°	916.7	20.3
30°-40°	961.4	21.3
40°-50°	809.9	17.9
50°-60°	567.4	12.6
60°-70°	304.2	6.7
70°-80°	102.0	2.3
80°-90°	11.1	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°	1758.8	39.0
0°-40°	2720.1	60.2
0°-60°	4097.5	90.8
0°-90°	4514.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4514.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2236	2236	2236	2236	2236	
5°	2239	2248	2252	2252	2252	215
15°	2303	2273	2206	2194	2206	650
25°	2142	2051	1921	1954	2012	981
35°	1658	1573	1476	1518	1548	1029
45°	1064	1045	1027	1054	1064	829
55°	661	639	615	627	639	595
65°	382	348	297	246	255	381
75°	176	136	73	46	46	186
85°	24	12	3	3	3	33
90°	0	0	0	0	0	



TEST NUMBER: P582440

CATALOG NUMBER: HCC6W40D010MW-HM63040830-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2236.4	2236.4	2236.4	2236.4	2236.4	2236.4	2236.4	2236.4	2236.4
2.5°	2221.2	2221.2	2227.3	2233.3	2239.4	2239.4	2242.4	2245.5	2242.4
5°	2239.4	2239.4	2248.5	2251.5	2251.5	2248.5	2251.5	2251.5	2251.5
7.5°	2266.6	2260.5	2263.5	2257.6	2251.5	2248.5	2245.5	2245.5	2245.5
10°	2275.7	2269.6	2263.5	2251.5	2236.4	2227.3	2224.2	2227.3	2227.3
12.5°	2287.8	2281.7	2266.6	2242.4	2224.2	2209.1	2206.0	2212.1	2212.1
15°	2303.0	2296.9	2272.6	2233.3	2206.0	2190.9	2193.9	2200.0	2206.0
17.5°	2303.0	2290.8	2251.5	2200.0	2166.6	2151.4	2163.6	2178.7	2187.8
20°	2266.6	2254.6	2200.0	2136.4	2096.9	2087.8	2109.1	2136.4	2145.4
22.5°	2218.2	2193.9	2130.3	2054.5	2012.1	2012.1	2042.3	2075.7	2087.8
25°	2142.5	2124.2	2051.4	1963.6	1921.1	1918.1	1954.5	2000.0	2012.1
27.5°	2057.5	2033.2	1954.5	1863.6	1818.1	1821.1	1860.6	1906.1	1918.1
30°	1936.3	1906.1	1836.3	1748.5	1706.0	1718.1	1757.6	1790.9	1806.0
32.5°	1799.9	1772.7	1709.0	1627.3	1590.8	1603.0	1636.4	1666.7	1678.8
35°	1657.6	1627.3	1572.6	1500.0	1475.7	1487.8	1518.2	1542.4	1548.5
37.5°	1496.9	1475.7	1436.4	1378.8	1360.5	1375.7	1400.0	1415.2	1421.2
40°	1348.4	1330.3	1297.0	1254.5	1248.4	1260.6	1284.8	1293.9	1297.0
42.5°	1203.1	1187.9	1166.7	1136.3	1136.3	1148.5	1169.7	1175.8	1178.8
45°	1063.6	1054.5	1045.4	1021.2	1027.2	1042.4	1054.5	1063.6	1063.6
47.5°	942.4	945.5	933.3	915.1	921.2	936.4	945.5	954.6	954.6
50°	848.5	839.4	827.3	809.1	818.2	830.3	842.4	848.5	851.5
52.5°	739.4	736.4	727.3	706.1	712.1	718.2	730.3	739.4	742.5
55°	660.6	651.5	639.3	615.2	615.2	621.2	627.3	633.4	639.3
57.5°	584.8	575.7	557.5	530.2	527.2	527.2	524.2	530.2	539.3
60°	509.1	506.1	478.8	454.5	445.4	436.3	424.2	427.2	439.4
62.5°	442.4	436.3	412.1	381.9	363.6	348.5	333.3	330.3	342.4
65°	381.9	375.8	348.5	318.1	296.9	269.7	245.5	245.5	254.6
67.5°	327.2	315.1	290.8	257.6	230.3	196.9	172.8	178.7	181.8
70°	272.8	263.7	236.4	203.0	169.8	136.4	121.2	124.2	124.2
72.5°	224.2	212.1	184.8	151.6	118.2	87.8	81.8	78.7	78.7
75°	175.7	163.7	136.4	103.0	72.7	51.6	45.5	45.5	45.5
77.5°	127.3	118.2	93.9	63.6	39.4	24.3	21.2	18.2	18.2
80°	87.8	78.7	57.6	33.4	15.2	9.1	9.1	9.1	9.1
82.5°	51.6	42.5	27.3	15.2	6.1	3.0	3.0	3.0	3.0
85°	24.3	18.2	12.1	6.1	3.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	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

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)