

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: P593210

Luminaire Tested: **HCC6W30D010MB-HM63040850-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593210  
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: HCC6W30D010MB-HM63040850-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

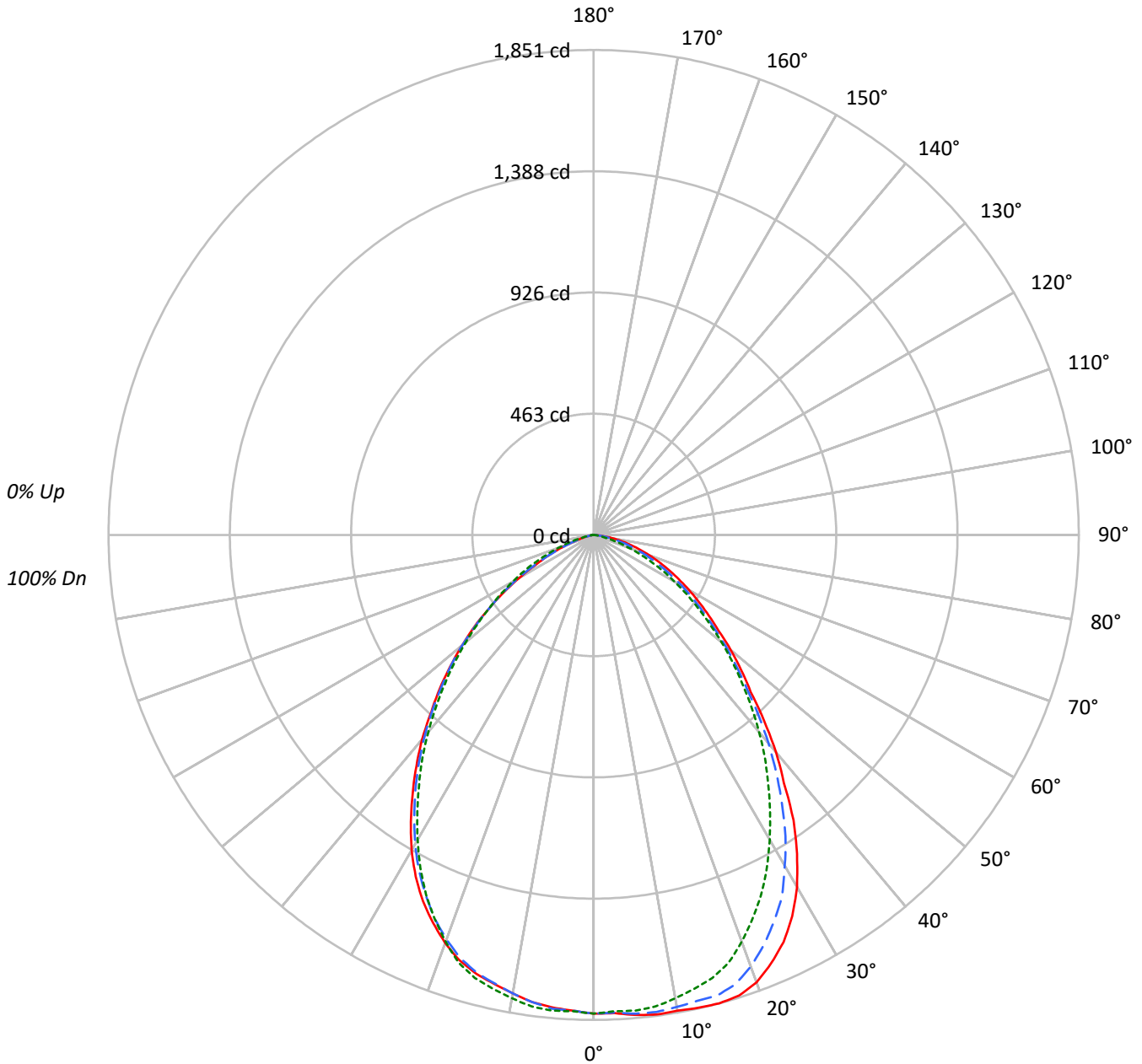
Lumens per Lamp: N/A  
Luminaire Lumens: 3580.1 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P593210  
CATALOG NUMBER: HCC6W30D010MB-HM63040850-61RWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P593210

CATALOG NUMBER: HCC6W30D010MB-HM63040850-61RWWH

**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°	100162	100162	100162
5°	101199	100280	99626
10°	102637	99976	98907
15°	105052	99342	98394
20°	106030	96387	96673
25°	103706	91542	93278
30°	98218	85032	87919
35°	88934	77724	80609
40°	77452	70260	72829
45°	65712	62193	64418
50°	58207	54318	55751
55°	51267	46460	46230
60°	45939	39120	35962
65°	40990	31365	25787
70°	36080	22648	16125
75°	30416	13704	9150
80°	23425	6030	3788
85°	13523	1510	1510



TEST NUMBER: P593210

CATALOG NUMBER: HCC6W30D010MB-HM63040850-61RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.4	4.8
10°-20°	498.4	13.9
20°-30°	720.5	20.1
30°-40°	758.2	21.2
40°-50°	637.3	17.8
50°-60°	447.3	12.5
60°-70°	246.1	6.9
70°-80°	87.4	2.4
80°-90°	11.4	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°	1392.4	38.9
0°-40°	2150.6	60.1
0°-60°	3235.2	90.4
0°-90°	3580.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3580.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1827	1827	1827	1827	1827	
5°	1839	1834	1822	1815	1810	176
15°	1851	1820	1750	1729	1734	522
25°	1714	1628	1513	1516	1542	784
35°	1329	1252	1161	1185	1204	824
45°	848	824	802	821	831	665
55°	536	508	486	486	484	483
65°	316	282	242	199	199	315
75°	144	115	65	43	43	154
85°	22	12	2	2	2	30
90°	0	0	0	0	0	

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



TEST NUMBER: P593210

CATALOG NUMBER: HCC6W30D010MB-HM63040850-61RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1
2.5°	1827.1	1827.1	1824.6	1824.6	1819.9	1819.9	1817.5	1817.5	1817.5
5°	1839.0	1839.0	1834.3	1827.1	1822.3	1815.1	1815.1	1812.7	1810.4
7.5°	1846.3	1843.8	1836.6	1827.1	1815.1	1803.1	1798.4	1800.7	1798.4
10°	1843.8	1839.0	1829.5	1810.4	1796.0	1779.2	1776.8	1774.3	1776.8
12.5°	1848.7	1841.4	1822.3	1798.4	1774.3	1755.2	1752.8	1752.8	1755.2
15°	1851.0	1843.8	1819.9	1784.0	1750.4	1731.3	1728.9	1731.3	1733.7
17.5°	1843.8	1834.3	1798.4	1750.4	1712.2	1693.0	1693.0	1697.8	1702.5
20°	1817.5	1803.1	1752.8	1695.4	1652.2	1637.8	1642.7	1652.2	1657.1
22.5°	1769.6	1752.8	1695.4	1630.7	1585.2	1573.3	1585.2	1597.2	1601.9
25°	1714.5	1695.4	1628.3	1561.3	1513.4	1499.0	1515.7	1534.9	1542.1
27.5°	1640.3	1618.7	1556.5	1479.8	1431.9	1424.8	1443.9	1465.4	1470.3
30°	1551.6	1527.7	1458.3	1386.5	1343.3	1341.0	1362.5	1381.7	1388.9
32.5°	1443.9	1422.4	1362.5	1290.7	1252.4	1252.4	1273.9	1290.7	1297.9
35°	1328.9	1305.0	1252.4	1192.6	1161.4	1163.8	1185.3	1197.3	1204.5
37.5°	1192.6	1185.3	1144.7	1094.4	1072.8	1077.6	1094.4	1103.9	1111.1
40°	1082.3	1063.2	1036.8	996.1	981.8	986.6	1003.3	1012.9	1017.7
42.5°	962.6	950.6	929.1	900.3	890.8	897.9	912.3	919.6	917.1
45°	847.6	845.3	823.7	807.0	802.2	811.7	821.4	828.5	830.9
47.5°	763.9	754.3	735.2	723.1	718.4	727.9	737.5	742.3	742.3
50°	682.5	672.9	653.7	641.7	636.9	646.6	653.7	658.5	653.7
52.5°	601.0	591.4	574.6	560.4	558.0	562.8	565.1	567.5	572.3
55°	536.4	526.8	507.7	490.9	486.1	488.4	486.1	486.1	483.7
57.5°	474.2	464.5	445.4	426.3	419.0	416.6	409.5	407.1	404.7
60°	419.0	407.1	388.0	366.3	356.8	347.2	335.3	328.0	328.0
62.5°	366.3	354.4	332.8	313.7	299.3	282.5	263.4	253.9	253.9
65°	316.0	306.5	282.5	261.0	241.8	220.3	198.8	193.9	198.8
67.5°	268.2	258.6	234.7	213.1	189.2	162.8	143.6	143.6	148.5
70°	225.1	215.6	193.9	167.6	141.3	115.0	100.6	100.6	100.6
72.5°	184.4	174.8	150.9	126.9	100.6	74.2	67.1	69.4	67.1
75°	143.6	136.5	115.0	88.6	64.7	45.5	43.2	40.7	43.2
77.5°	107.7	100.6	81.4	57.4	35.9	26.4	23.9	23.9	23.9
80°	74.2	67.1	52.7	33.5	19.1	12.0	12.0	12.0	12.0
82.5°	45.5	38.3	28.8	16.8	7.1	7.1	7.1	7.1	7.1
85°	21.5	16.8	12.0	4.8	2.4	2.4	2.4	2.4	2.4
87.5°	4.8	4.8	2.4	2.4	0.0	2.4	2.4	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)