

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: P593158

Luminaire Tested: **HCC6S20D010MB-HM60525950-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010MB-HM60525950-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

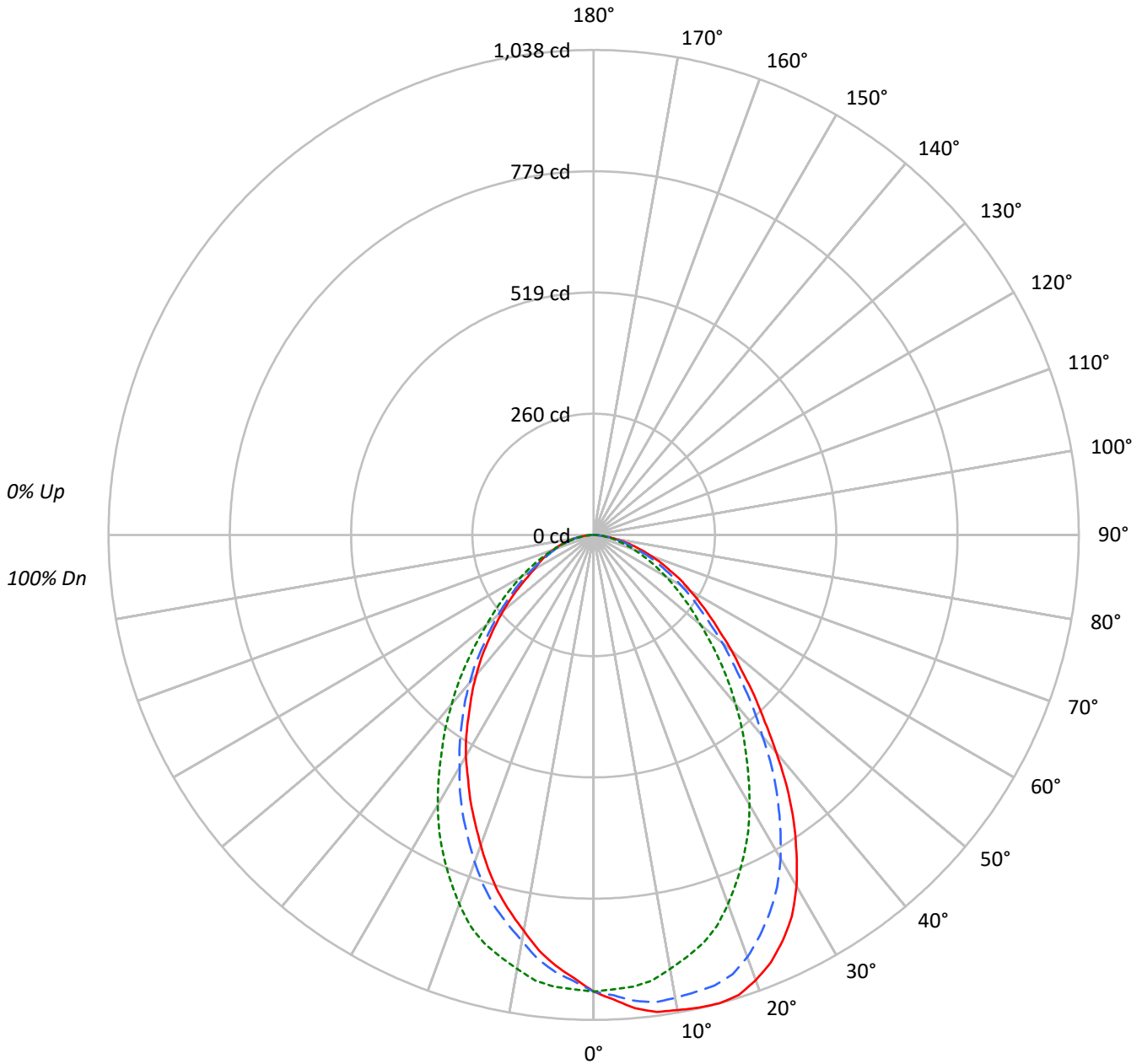
Lumens per Lamp: N/A  
Luminaire Lumens: 1820.5 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P593158  
CATALOG NUMBER: HCC6S20D010MB-HM60525950-61WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593158

CATALOG NUMBER: HCC6S20D010MB-HM60525950-61WWW

**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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76					76			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58					58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51					51			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32					32			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	53576	53576	53576
5°	55954	53423	50957
10°	57481	52498	47889
15°	58899	51357	44864
20°	59161	49039	41204
25°	57923	45910	37793
30°	54951	42215	34638
35°	49918	37945	31072
40°	43489	33792	27960
45°	37632	29577	24576
50°	32869	25458	21534
55°	29046	22384	18484
60°	26094	19615	16007
65°	23388	17058	15514
70°	20869	14554	14554
75°	18110	12264	13662
80°	14522	10386	12438
85°	9875	9120	10756



TEST NUMBER: P593158

CATALOG NUMBER: HCC6S20D010MB-HM60525950-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	5.0
10°-20°	255.3	14.0
20°-30°	355.8	19.5
30°-40°	366.6	20.1
40°-50°	303.9	16.7
50°-60°	218.4	12.0
60°-70°	139.1	7.6
70°-80°	71.4	3.9
80°-90°	18.2	1.0
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°	703.0	38.6
0°-40°	1069.7	58.8
0°-60°	1591.9	87.4
0°-90°	1820.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	977	977	977	977	977	
5°	1017	1001	971	939	926	97
15°	1038	998	905	822	790	292
25°	958	892	759	662	625	439
35°	746	685	567	492	464	463
45°	485	451	382	333	317	376
55°	304	279	234	208	193	274
65°	180	160	132	114	120	180
75°	86	74	58	60	64	91
85°	16	14	14	16	17	20
90°	0	0	0	0	0	



TEST NUMBER: P593158

CATALOG NUMBER: HCC6S20D010MB-HM60525950-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3
2.5°	995.7	991.8	986.5	981.3	973.4	964.2	956.3	953.6	949.7
5°	1016.8	1011.5	1001.0	987.9	970.8	953.6	939.1	930.0	926.0
7.5°	1029.9	1023.3	1008.9	986.5	961.6	936.5	915.5	902.3	897.1
10°	1032.6	1025.9	1006.2	976.0	943.1	908.9	882.6	866.9	860.3
12.5°	1036.5	1027.3	1002.3	966.8	924.8	885.2	852.4	832.6	826.1
15°	1037.8	1027.3	998.4	955.0	904.9	857.6	822.1	798.4	790.5
17.5°	1032.6	1020.7	986.5	933.9	877.4	827.3	785.3	760.2	749.7
20°	1014.1	1001.0	961.6	902.3	840.6	787.9	744.5	718.2	706.3
22.5°	990.5	973.4	928.6	865.5	801.0	745.9	702.5	676.1	664.3
25°	957.6	941.7	891.8	824.7	759.0	701.1	661.7	634.0	624.8
27.5°	919.4	901.1	849.8	782.7	715.6	657.7	619.5	594.6	582.7
30°	868.1	851.0	799.8	732.7	666.9	613.0	573.5	552.5	547.2
32.5°	807.6	793.2	743.1	680.0	616.9	567.0	534.0	511.7	506.5
35°	745.9	728.7	685.4	626.1	567.0	522.2	491.9	472.2	464.3
37.5°	678.8	662.9	626.1	573.5	520.8	478.8	452.5	435.4	427.5
40°	607.7	595.8	561.6	519.6	472.2	435.4	413.0	398.6	390.7
42.5°	541.9	530.1	506.5	466.9	427.5	394.6	374.9	361.8	355.2
45°	485.4	474.8	451.2	416.9	381.5	353.8	332.8	323.6	317.0
47.5°	428.8	423.5	402.6	370.9	338.1	314.4	299.9	289.4	284.2
50°	385.4	378.9	359.0	326.2	298.5	280.2	267.0	257.8	252.5
52.5°	340.7	334.1	315.7	288.0	265.7	248.6	235.4	227.5	222.3
55°	303.9	298.5	278.8	253.9	234.2	219.7	207.8	198.6	193.4
57.5°	269.7	264.4	246.0	222.3	205.2	192.0	181.5	173.6	167.0
60°	238.0	234.2	215.7	193.4	178.9	165.8	156.6	149.9	146.0
62.5°	210.5	202.6	186.8	167.0	153.9	143.3	134.1	130.2	132.9
65°	180.3	176.3	160.4	143.3	131.5	121.0	114.4	117.0	119.6
67.5°	155.2	149.9	136.8	121.0	110.5	102.6	98.7	103.9	105.3
70°	130.2	125.0	113.1	99.9	90.8	85.5	85.5	89.4	90.8
72.5°	106.5	102.6	92.1	81.6	75.0	71.0	73.6	76.3	77.6
75°	85.5	81.6	73.6	64.5	57.9	57.9	60.5	63.1	64.5
77.5°	65.7	63.1	55.3	48.7	46.0	46.0	48.7	50.0	51.3
80°	46.0	43.4	39.4	35.5	32.9	35.5	38.2	38.2	39.4
82.5°	30.3	28.9	26.3	23.7	23.7	25.0	26.3	27.6	27.6
85°	15.7	15.7	14.5	13.1	14.5	15.7	15.7	17.1	17.1
87.5°	5.2	5.2	5.2	5.2	6.6	6.6	6.6	6.6	6.6
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)