

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: P581945

Luminaire Tested: **HCC6S20D010MW-HM60525930-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010MW-HM60525930-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

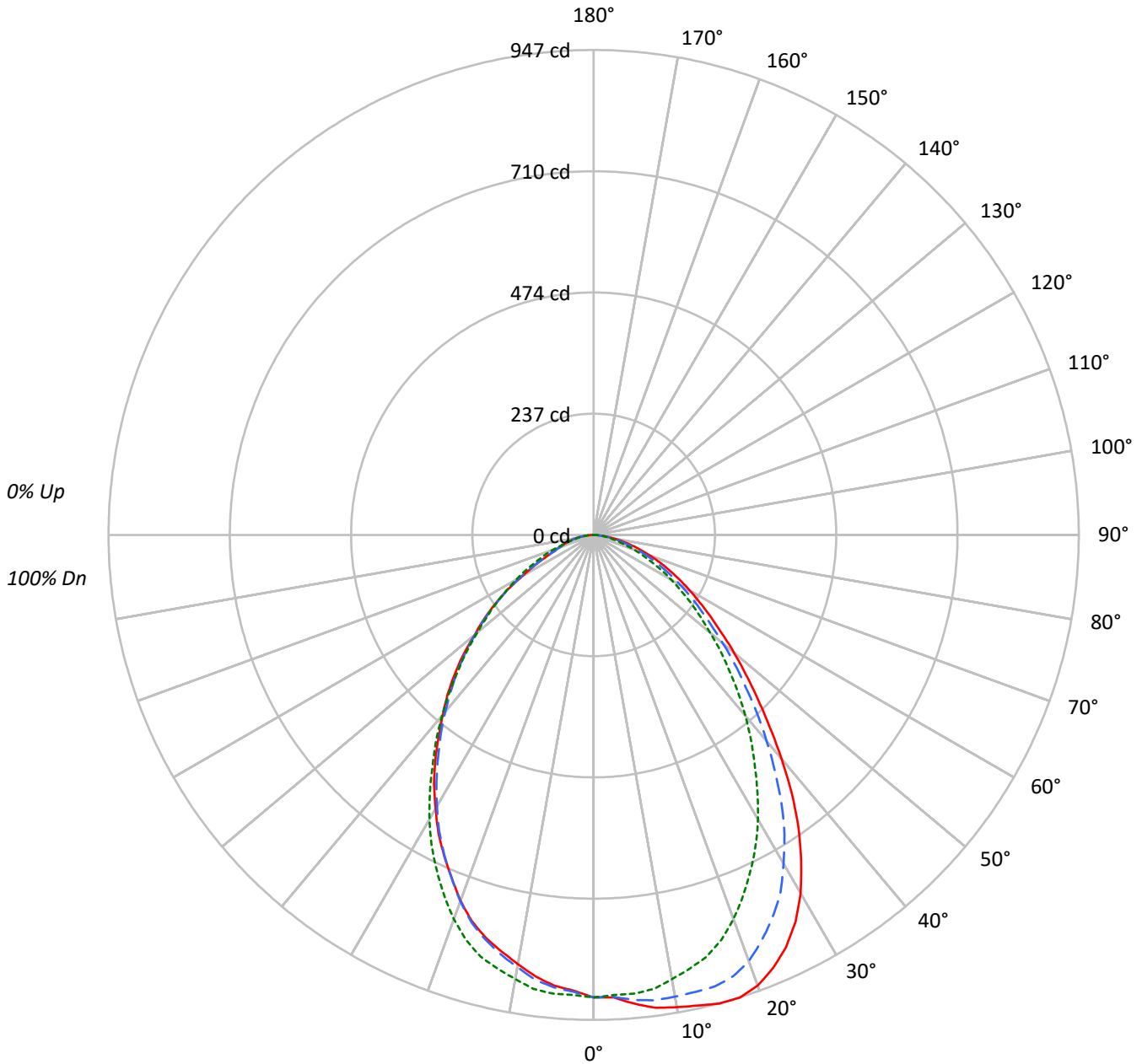
Lumens per Lamp: N/A  
Luminaire Lumens: 1768.4 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P581945  
CATALOG NUMBER: HCC6S20D010MW-HM60525930-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P581945

CATALOG NUMBER: HCC6S20D010MW-HM60525930-61WWWB

**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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

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

	0°	90°	180°
0°	49503	49503	49503
5°	50572	49488	48608
10°	52120	49030	47383
15°	53769	48383	46209
20°	54622	46560	44331
25°	53725	43799	41785
30°	51153	40608	39044
35°	46645	36654	36078
40°	40784	32926	32747
45°	35097	28980	29646
50°	30506	25253	25782
55°	26647	22164	22403
60°	23660	19209	17575
65°	21118	16163	13452
70°	18577	13239	11284
75°	15928	10463	10696
80°	12849	8934	10513
85°	8554	7737	9309



TEST NUMBER: P581945

CATALOG NUMBER: HCC6S20D010MW-HM60525930-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	4.8
10°-20°	243.4	13.8
20°-30°	347.4	19.6
30°-40°	363.9	20.6
40°-50°	306.4	17.3
50°-60°	218.1	12.3
60°-70°	127.7	7.2
70°-80°	60.4	3.4
80°-90°	15.5	0.9
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°	676.3	38.2
0°-40°	1040.3	58.8
0°-60°	1564.8	88.5
0°-90°	1768.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	903	903	903	903	903	
5°	919	912	899	887	883	88
15°	947	913	852	818	814	267
25°	888	825	724	690	691	407
35°	697	639	548	529	539	433
45°	453	419	374	375	382	351
55°	279	255	232	232	234	251
65°	163	144	125	105	104	162
75°	75	63	49	48	50	81
85°	14	11	12	15	15	18
90°	0	0	0	0	0	

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



TEST NUMBER: P581945

CATALOG NUMBER: HCC6S20D010MW-HM60525930-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	903.0	903.0	903.0	903.0	903.0	903.0	903.0	903.0	903.0
2.5°	904.2	904.2	903.0	901.8	899.3	895.6	893.1	890.7	890.7
5°	919.0	916.6	911.6	905.5	899.3	891.9	886.9	883.3	883.3
7.5°	931.3	926.5	916.6	905.5	894.4	884.5	875.8	870.9	869.7
10°	936.3	930.1	915.4	898.0	880.8	867.2	857.3	851.2	851.2
12.5°	941.2	933.8	914.1	889.4	867.2	848.7	838.9	833.9	832.6
15°	947.4	937.6	912.9	882.0	852.5	831.4	817.9	814.2	814.2
17.5°	947.4	935.1	904.2	866.0	829.0	805.6	793.2	789.5	790.7
20°	936.3	922.7	885.8	838.9	798.1	773.5	761.1	758.7	759.9
22.5°	915.4	899.3	857.3	806.8	762.4	736.4	725.3	725.3	724.1
25°	888.2	870.9	825.3	772.3	724.1	698.3	689.5	690.8	690.8
27.5°	852.5	835.1	789.5	732.7	684.7	658.7	652.6	655.0	656.2
30°	808.1	789.5	741.4	685.9	641.5	615.6	611.8	615.6	616.8
32.5°	753.8	740.2	693.3	636.5	594.6	572.4	571.1	574.9	579.8
35°	697.0	682.2	639.0	587.2	547.7	529.2	529.2	535.3	539.1
37.5°	635.3	620.5	581.0	537.8	504.5	487.3	489.8	495.9	497.2
40°	569.9	558.8	525.5	488.5	460.1	446.5	450.3	456.5	457.6
42.5°	508.3	498.4	471.2	437.9	416.9	407.1	412.1	419.4	421.9
45°	452.7	441.6	419.4	391.0	373.8	368.8	375.0	379.9	382.4
47.5°	402.1	392.2	373.8	347.8	335.6	333.1	339.2	341.7	344.2
50°	357.7	347.8	329.4	305.9	296.1	296.1	301.0	303.4	302.3
52.5°	314.5	305.9	288.7	269.0	262.7	262.7	266.5	267.7	270.1
55°	278.8	270.1	255.4	236.8	231.9	229.4	231.9	231.9	234.4
57.5°	245.5	238.0	224.6	207.2	201.1	198.6	197.4	196.1	198.6
60°	215.8	209.7	194.9	180.1	175.2	169.0	164.1	159.2	160.3
62.5°	188.8	182.5	169.0	154.2	149.2	140.6	134.5	128.3	130.7
65°	162.8	156.7	144.3	132.0	124.6	114.8	104.8	101.2	103.7
67.5°	139.4	134.5	122.1	109.8	103.7	92.6	82.6	82.6	83.8
70°	115.9	111.0	101.2	90.1	82.6	72.7	69.1	70.4	70.4
72.5°	94.9	91.3	81.5	71.5	64.1	58.0	58.0	59.3	60.5
75°	75.2	72.7	62.9	54.3	49.4	45.7	48.2	49.4	50.5
77.5°	58.0	54.3	46.9	40.7	37.0	38.3	40.7	41.9	43.2
80°	40.7	39.4	33.3	29.6	28.3	29.6	32.1	33.3	33.3
82.5°	25.9	24.7	21.0	19.7	19.7	21.0	23.5	23.5	23.5
85°	13.6	12.3	11.1	11.1	12.3	13.6	14.8	14.8	14.8
87.5°	5.0	3.7	5.0	5.0	6.1	6.1	6.1	6.1	6.1
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)