

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: P581865

Luminaire Tested: **HCC6S20D010SL-HM60525830-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581865  
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: HCC6S20D010SL-HM60525830-61RWWH  
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**

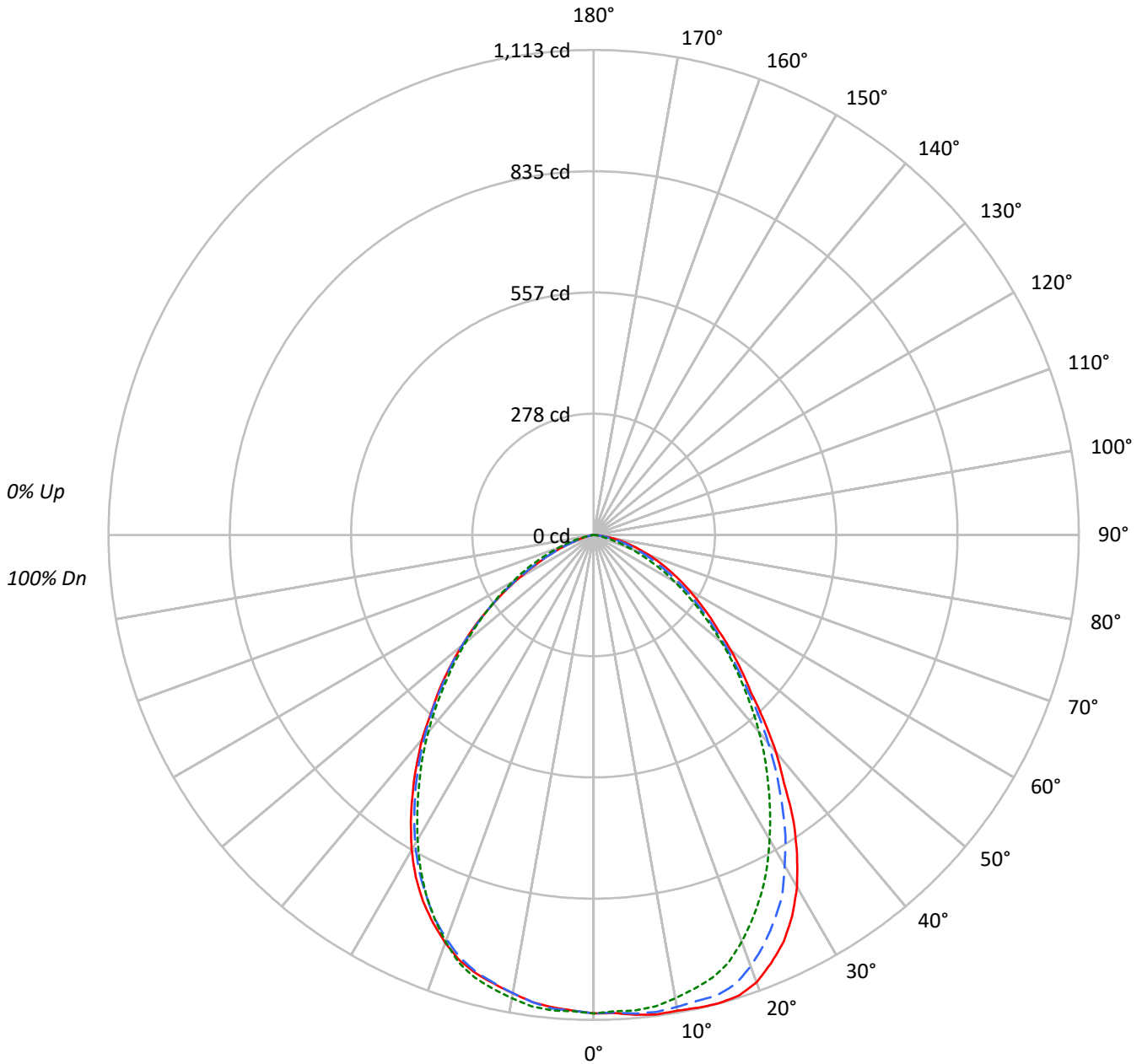
Lumens per Lamp: N/A  
Luminaire Lumens: 2152.2 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P581865  
CATALOG NUMBER: HCC6S20D010SL-HM60525830-61RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P581865

CATALOG NUMBER: HCC6S20D010SL-HM60525830-61RWWH

**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	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°	60209	60209	60209
5°	60841	60285	59883
10°	61700	60097	59457
15°	63150	59722	59149
20°	63741	57948	58111
25°	62344	55031	56072
30°	59047	51122	52850
35°	53465	46726	48459
40°	46566	42236	43782
45°	39508	37384	38725
50°	34992	32664	33517
55°	30823	27927	27784
60°	27618	23518	21632
65°	24646	18861	15501
70°	21686	13624	9697
75°	18279	8239	5486
80°	14080	3662	2305
85°	8114	943	943



TEST NUMBER: P581865  
 CATALOG NUMBER: HCC6S20D010SL-HM60525830-61RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	4.8
10°-20°	299.6	13.9
20°-30°	433.1	20.1
30°-40°	455.8	21.2
40°-50°	383.1	17.8
50°-60°	268.9	12.5
60°-70°	147.9	6.9
70°-80°	52.5	2.4
80°-90°	6.9	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°	837.0	38.9
0°-40°	1292.8	60.1
0°-60°	1944.9	90.4
0°-90°	2152.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1098	1098	1098	1098	1098	
5°	1106	1103	1096	1091	1088	106
15°	1113	1094	1052	1039	1042	314
25°	1031	979	910	911	927	472
35°	799	753	698	712	724	495
45°	510	495	482	494	500	400
55°	322	305	292	292	291	290
65°	190	170	145	120	120	189
75°	86	69	39	26	26	93
85°	13	7	2	2	2	18
90°	0	0	0	0	0	

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



TEST NUMBER: P581865

CATALOG NUMBER: HCC6S20D010SL-HM60525830-61RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	1098.3	1098.3	1096.9	1096.9	1094.0	1094.0	1092.6	1092.6	1092.6
5°	1105.6	1105.6	1102.6	1098.3	1095.5	1091.2	1091.2	1089.7	1088.2
7.5°	1109.9	1108.4	1104.1	1098.3	1091.2	1083.9	1081.1	1082.5	1081.1
10°	1108.4	1105.6	1099.8	1088.2	1079.6	1069.6	1068.1	1066.7	1068.1
12.5°	1111.2	1106.9	1095.5	1081.1	1066.7	1055.2	1053.7	1053.7	1055.2
15°	1112.7	1108.4	1094.0	1072.4	1052.3	1040.8	1039.3	1040.8	1042.2
17.5°	1108.4	1102.6	1081.1	1052.3	1029.2	1017.8	1017.8	1020.6	1023.4
20°	1092.6	1083.9	1053.7	1019.1	993.3	984.6	987.5	993.3	996.1
22.5°	1063.8	1053.7	1019.1	980.3	953.0	945.7	953.0	960.1	963.0
25°	1030.7	1019.1	978.9	938.6	909.8	901.1	911.2	922.7	927.0
27.5°	986.0	973.1	935.6	889.6	860.9	856.5	868.0	881.0	883.9
30°	932.8	918.4	876.6	833.4	807.6	806.1	819.0	830.6	834.9
32.5°	868.0	855.1	819.0	775.9	752.9	752.9	765.8	775.9	780.2
35°	798.9	784.5	752.9	716.8	698.2	699.6	712.5	719.8	724.1
37.5°	716.8	712.5	688.1	657.8	644.9	647.7	657.8	663.6	667.9
40°	650.7	639.1	623.3	598.8	590.2	593.1	603.1	608.9	611.8
42.5°	578.6	571.5	558.6	541.2	535.5	539.8	548.5	552.8	551.3
45°	509.6	508.2	495.2	485.2	482.2	488.0	493.8	498.1	499.5
47.5°	459.2	453.4	441.9	434.7	431.9	437.6	443.3	446.3	446.3
50°	410.3	404.5	393.0	385.8	383.0	388.6	393.0	395.9	393.0
52.5°	361.3	355.5	345.5	336.8	335.4	338.3	339.7	341.1	344.1
55°	322.5	316.7	305.2	295.1	292.2	293.7	292.2	292.2	290.7
57.5°	285.1	279.3	267.7	256.3	251.9	250.5	246.2	244.7	243.3
60°	251.9	244.7	233.2	220.3	214.5	208.7	201.6	197.3	197.3
62.5°	220.3	213.0	200.1	188.5	179.9	169.8	158.4	152.6	152.6
65°	190.0	184.2	169.8	156.9	145.4	132.4	119.5	116.6	119.5
67.5°	161.2	155.4	141.1	128.1	113.8	97.9	86.3	86.3	89.3
70°	135.3	129.5	116.6	100.7	85.0	69.1	60.5	60.5	60.5
72.5°	110.8	105.0	90.6	76.3	60.5	44.6	40.3	41.7	40.3
75°	86.3	82.0	69.1	53.3	38.9	27.3	25.9	24.5	25.9
77.5°	64.8	60.5	48.9	34.6	21.6	15.9	14.4	14.4	14.4
80°	44.6	40.3	31.7	20.2	11.6	7.3	7.3	7.3	7.3
82.5°	27.3	23.0	17.2	10.1	4.3	4.3	4.3	4.3	4.3
85°	12.9	10.1	7.3	2.8	1.5	1.5	1.5	1.5	1.5
87.5°	2.8	2.8	1.5	1.5	0.0	1.5	1.5	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)