

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: P581855

Luminaire Tested: **HCC6S20D010SL-HM60525827-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581855  
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: HCC6S20D010SL-HM60525827-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

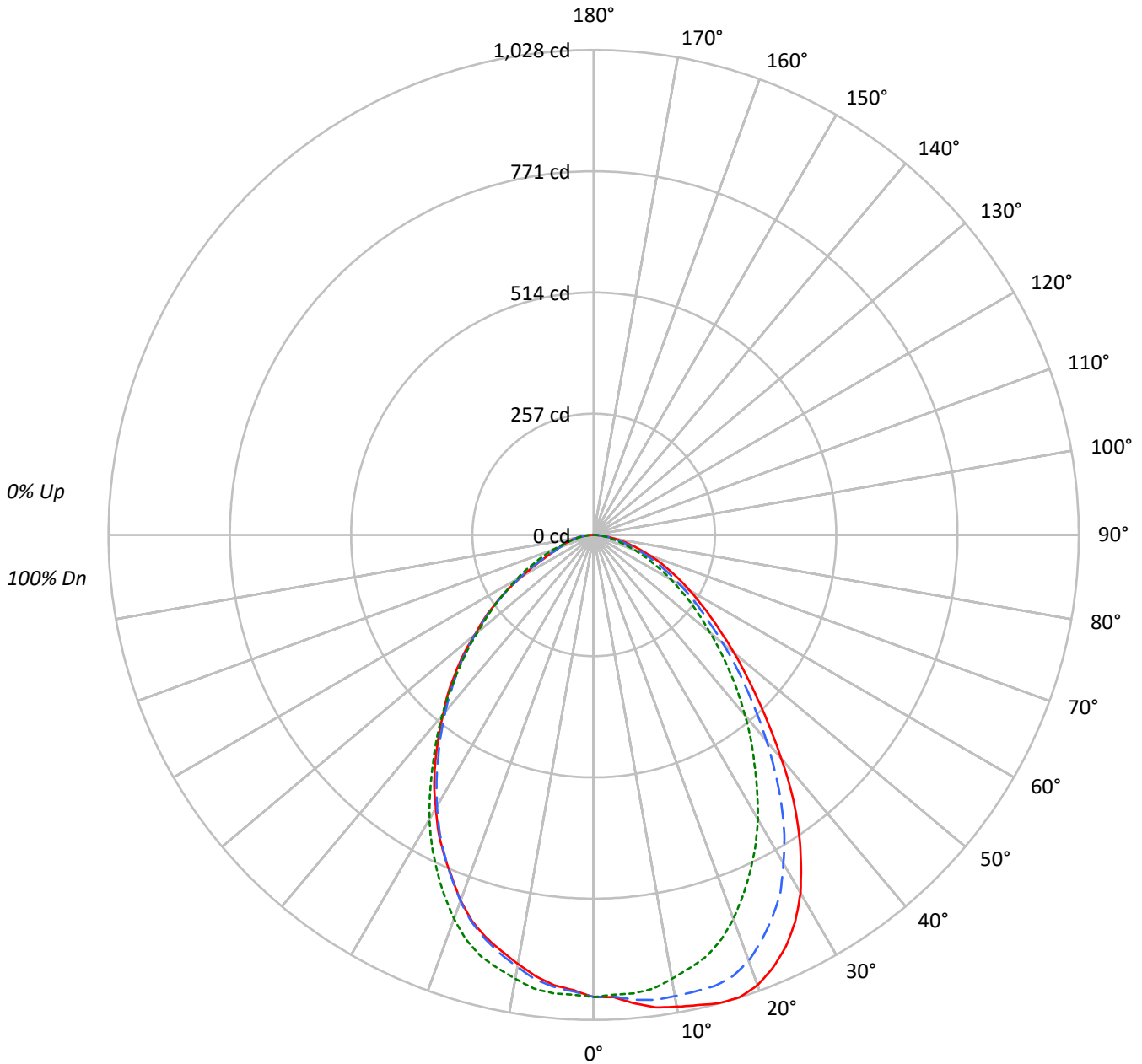
Lumens per Lamp: N/A  
Luminaire Lumens: 1918.1 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P581855  
CATALOG NUMBER: HCC6S20D010SL-HM60525827-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P581855

CATALOG NUMBER: HCC6S20D010SL-HM60525827-61WWWB

**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°	53696	53696	53696
5°	54853	53676	52724
10°	56534	53178	51396
15°	58320	52475	50119
20°	59248	50504	48088
25°	58274	47507	45323
30°	55477	44045	42348
35°	50587	39759	39130
40°	44240	35717	35524
45°	38066	31430	32158
50°	33099	27385	27956
55°	28902	24037	24295
60°	25678	20832	19066
65°	22908	17538	14580
70°	20164	14361	12230
75°	17284	11332	11607
80°	13954	9723	11397
85°	9246	8428	10127



TEST NUMBER: P581855  
 CATALOG NUMBER: HCC6S20D010SL-HM60525827-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	4.8
10°-20°	264.0	13.8
20°-30°	376.9	19.6
30°-40°	394.8	20.6
40°-50°	332.4	17.3
50°-60°	236.5	12.3
60°-70°	138.5	7.2
70°-80°	65.5	3.4
80°-90°	16.9	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°	733.6	38.2
0°-40°	1128.4	58.8
0°-60°	1697.3	88.5
0°-90°	1918.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	980	980	980	980	980	
5°	997	989	975	962	958	96
15°	1028	990	925	887	883	290
25°	963	895	785	748	749	441
35°	756	693	594	574	585	470
45°	491	455	405	407	415	381
55°	302	277	252	252	254	273
65°	177	157	135	114	112	176
75°	82	68	54	52	55	88
85°	15	12	13	16	16	19
90°	0	0	0	0	0	

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



TEST NUMBER: P581855

CATALOG NUMBER: HCC6S20D010SL-HM60525827-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5
2.5°	980.8	980.8	979.5	978.1	975.4	971.4	968.7	966.1	966.1
5°	996.8	994.2	988.8	982.1	975.4	967.4	962.0	958.1	958.1
7.5°	1010.2	1004.9	994.2	982.1	970.1	959.4	950.0	944.7	943.3
10°	1015.6	1008.9	992.8	974.0	955.3	940.6	930.0	923.3	923.3
12.5°	1020.9	1012.9	991.5	964.7	940.6	920.6	909.9	904.5	903.2
15°	1027.6	1016.9	990.1	956.7	924.6	901.9	887.1	883.1	883.1
17.5°	1027.6	1014.3	980.8	939.3	899.1	873.8	860.4	856.3	857.7
20°	1015.6	1000.9	960.7	909.9	865.7	839.0	825.6	822.9	824.3
22.5°	992.8	975.4	930.0	875.1	826.9	798.8	786.8	786.8	785.4
25°	963.4	944.7	895.2	837.6	785.4	757.3	748.0	749.3	749.3
27.5°	924.6	905.8	856.3	794.8	742.6	714.5	707.8	710.5	711.9
30°	876.4	856.3	804.2	743.9	695.8	667.7	663.7	667.7	669.0
32.5°	817.6	802.8	752.0	690.5	644.9	620.9	619.5	623.5	628.9
35°	755.9	740.0	693.1	636.9	594.1	574.0	574.0	580.7	584.7
37.5°	689.1	673.0	630.2	583.4	547.2	528.5	531.2	537.9	539.2
40°	618.2	606.2	570.0	529.9	499.1	484.4	488.4	495.1	496.4
42.5°	551.3	540.6	511.1	475.0	452.3	441.5	446.9	454.9	457.6
45°	491.0	479.0	454.9	424.2	405.4	400.1	406.7	412.1	414.8
47.5°	436.2	425.4	405.4	377.3	363.9	361.3	368.0	370.6	373.3
50°	388.1	377.3	357.2	331.9	321.1	321.1	326.5	329.1	327.8
52.5°	341.1	331.9	313.0	291.7	284.9	284.9	289.0	290.4	293.0
55°	302.4	293.0	277.0	256.9	251.5	248.9	251.5	251.5	254.2
57.5°	266.3	258.2	243.5	224.8	218.1	215.4	214.1	212.8	215.4
60°	234.2	227.5	211.4	195.3	190.0	183.3	178.0	172.6	173.9
62.5°	204.7	198.0	183.3	167.2	161.9	152.5	145.8	139.1	141.9
65°	176.6	170.0	156.6	143.2	135.2	124.4	113.8	109.7	112.4
67.5°	151.1	145.8	132.4	119.1	112.4	100.4	89.6	89.6	91.0
70°	125.8	120.4	109.7	97.7	89.6	79.0	74.9	76.3	76.3
72.5°	103.0	99.0	88.3	77.6	69.6	62.9	62.9	64.2	65.6
75°	81.6	79.0	68.2	58.9	53.5	49.5	52.2	53.5	54.8
77.5°	62.9	58.9	50.9	44.2	40.1	41.5	44.2	45.5	46.8
80°	44.2	42.8	36.1	32.1	30.8	32.1	34.8	36.1	36.1
82.5°	28.1	26.7	22.8	21.4	21.4	22.8	25.4	25.4	25.4
85°	14.7	13.4	12.0	12.0	13.4	14.7	16.1	16.1	16.1
87.5°	5.3	4.0	5.3	5.3	6.7	6.7	6.7	6.7	6.7
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)