

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: P581889

Luminaire Tested: **HCC6S20D010BZ-HM60525835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S20D010BZ-HM60525835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

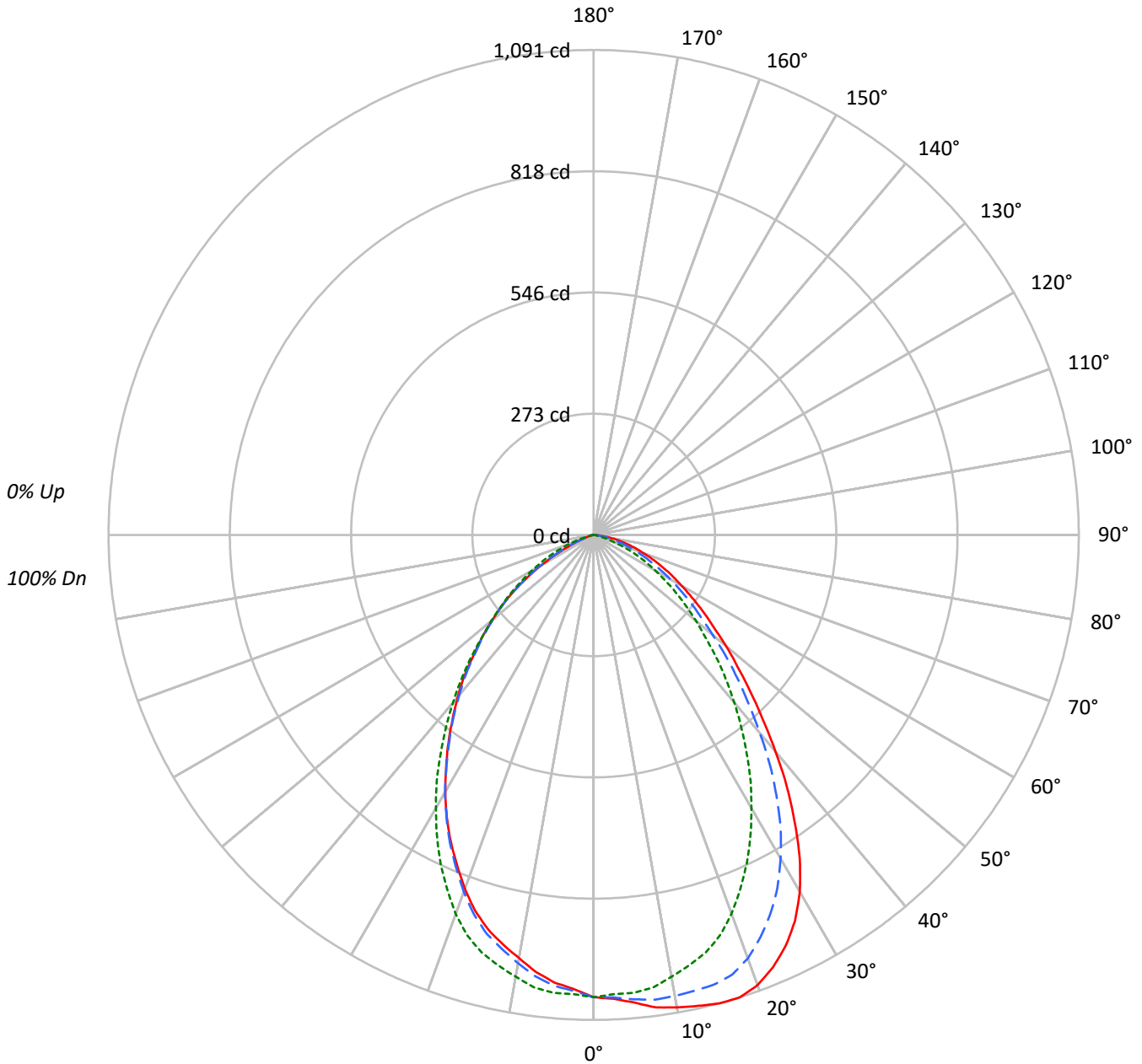
Lumens per Lamp: N/A
Luminaire Lumens: 1853.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): 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: P581889
CATALOG NUMBER: HCC6S20D010BZ-HM60525835-61WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P581889

CATALOG NUMBER: HCC6S20D010BZ-HM60525835-61WWBB

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49								
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44								
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40								
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37								
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	57013	57013	57013
5°	58117	56906	55618
10°	60086	56184	53818
15°	61930	55205	52129
20°	62883	52907	49407
25°	61752	49279	46007
30°	58705	44906	42222
35°	52755	40134	38079
40°	45535	35173	34021
45°	38554	30274	29484
50°	33056	25568	25330
55°	28654	21524	20692
60°	25020	17477	14758
65°	22013	13477	8159
70°	18994	8912	3975
75°	16097	4342	1567
80°	12470	1863	916
85°	7359	943	943



TEST NUMBER: P581889
 CATALOG NUMBER: HCC6S20D010BZ-HM60525835-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	5.3
10°-20°	277.5	15.0
20°-30°	390.8	21.1
30°-40°	399.3	21.5
40°-50°	321.9	17.4
50°-60°	215.9	11.7
60°-70°	109.3	5.9
70°-80°	34.9	1.9
80°-90°	5.4	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°	766.5	41.4
0°-40°	1165.8	62.9
0°-60°	1703.7	91.9
0°-90°	1853.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1040	1040	1040	1040	1040	
5°	1056	1049	1034	1018	1011	102
15°	1091	1047	973	929	918	308
25°	1021	940	815	765	761	467
35°	788	717	600	566	569	491
45°	497	458	390	377	380	387
55°	300	266	225	215	216	270
65°	170	140	104	69	63	169
75°	76	54	20	7	7	82
85°	12	6	2	2	2	16
90°	0	0	0	0	0	

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



TEST NUMBER: P581889

CATALOG NUMBER: HCC6S20D010BZ-HM60525835-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0
2.5°	1044.4	1042.9	1041.5	1038.5	1034.1	1029.7	1026.8	1023.9	1022.4
5°	1056.1	1053.1	1048.7	1042.9	1034.1	1023.9	1018.0	1012.2	1010.7
7.5°	1072.2	1066.3	1054.6	1041.5	1026.8	1012.2	1001.9	996.1	991.7
10°	1079.4	1069.2	1053.1	1031.1	1009.3	991.7	978.6	969.7	966.8
12.5°	1085.3	1073.6	1050.2	1020.9	991.7	968.3	953.6	946.4	943.4
15°	1091.2	1079.4	1047.2	1009.3	972.7	944.9	928.8	921.5	918.5
17.5°	1091.2	1075.1	1037.0	988.8	944.9	911.3	895.2	887.8	886.3
20°	1077.9	1060.5	1013.6	956.6	906.9	868.8	854.2	849.9	846.9
22.5°	1053.1	1032.6	980.0	915.7	861.5	824.9	808.8	805.9	803.0
25°	1020.9	1000.4	940.5	871.7	814.7	778.1	765.0	762.1	760.6
27.5°	980.0	958.1	895.2	824.9	763.5	728.4	716.7	716.7	715.3
30°	927.4	902.4	841.0	770.8	709.4	677.2	668.5	668.5	667.0
32.5°	863.0	838.1	782.6	715.3	656.7	623.2	615.8	618.7	617.3
35°	788.3	767.9	716.7	650.9	599.7	569.0	566.0	569.0	569.0
37.5°	713.8	694.8	650.9	593.8	545.5	517.8	517.8	522.2	520.7
40°	636.3	621.7	580.7	530.9	491.5	472.5	469.5	473.9	475.4
42.5°	563.1	551.4	516.3	475.4	440.3	421.2	425.7	428.6	430.0
45°	497.3	485.6	457.8	415.4	390.5	377.4	377.4	381.7	380.3
47.5°	438.8	430.0	402.2	361.3	339.3	333.4	336.4	339.3	339.3
50°	387.6	374.5	348.2	316.0	299.8	292.5	295.5	297.0	297.0
52.5°	339.3	330.6	304.2	275.0	260.4	255.9	255.9	257.4	257.4
55°	299.8	289.6	266.3	236.9	225.2	219.3	215.0	213.6	216.5
57.5°	261.8	253.0	231.1	203.3	190.1	184.3	175.5	172.6	175.5
60°	228.2	220.8	199.0	172.6	159.4	147.7	137.5	131.7	134.6
62.5°	199.0	190.1	168.3	146.3	131.7	118.5	102.4	93.6	98.0
65°	169.7	162.4	140.4	118.5	103.9	87.8	68.8	62.9	62.9
67.5°	143.3	136.1	115.6	96.5	79.0	59.9	42.4	40.9	42.4
70°	118.5	111.1	93.6	74.6	55.6	36.6	24.8	24.8	24.8
72.5°	98.0	89.2	73.1	54.2	35.1	19.0	13.1	14.6	14.6
75°	76.0	68.8	54.2	36.6	20.5	8.7	7.4	7.4	7.4
77.5°	57.0	51.2	38.1	23.5	10.2	2.9	2.9	2.9	2.9
80°	39.5	33.7	24.8	14.6	5.9	2.9	2.9	2.9	2.9
82.5°	23.5	20.5	14.6	7.4	2.9	1.5	1.5	1.5	1.5
85°	11.7	10.2	5.9	2.9	1.5	1.5	1.5	1.5	1.5
87.5°	2.9	2.9	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)