

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: **HCC6W20D010BZ-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: HCC6W20D010BZ-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**

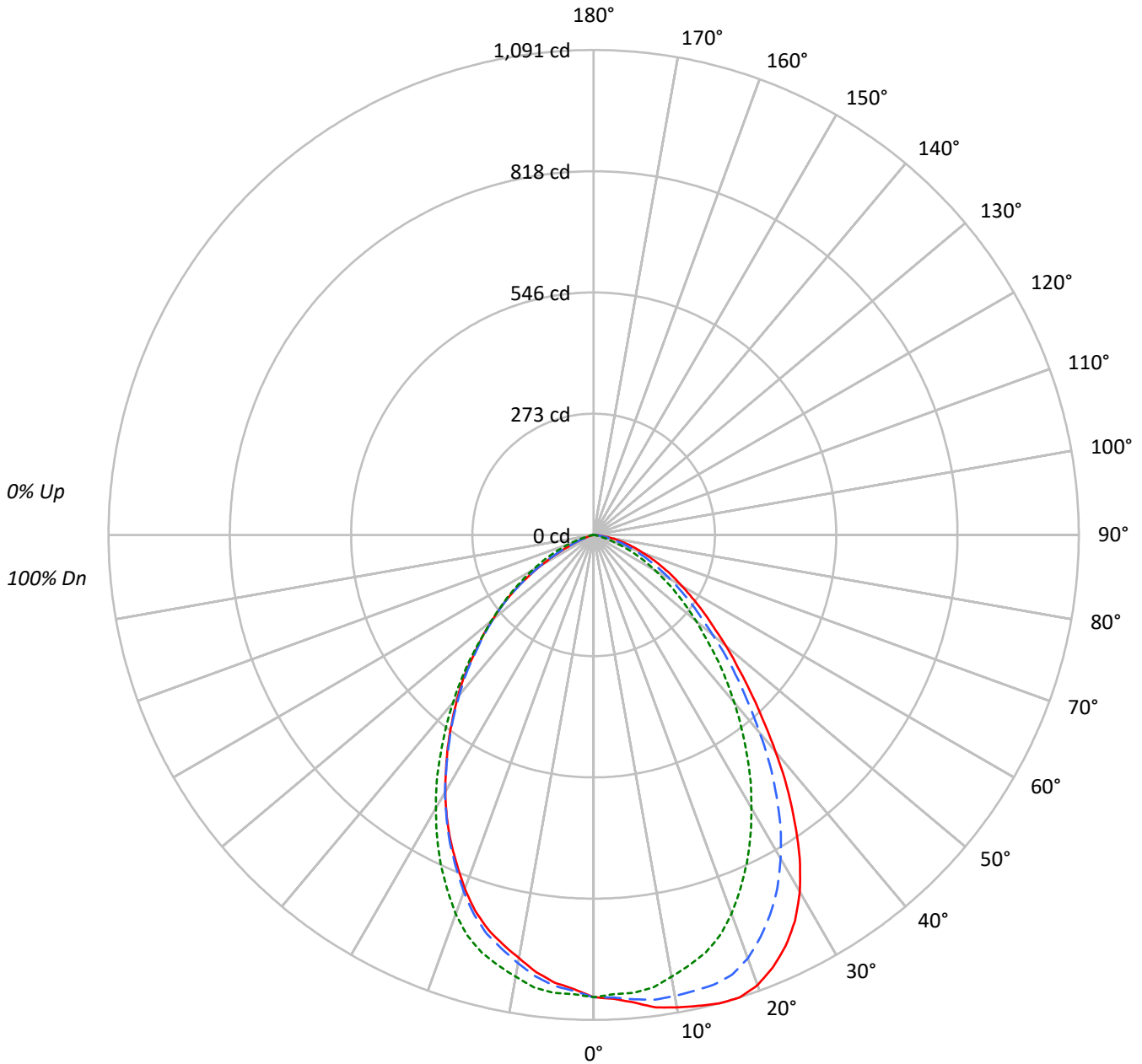
Lumens per Lamp: N/A  
Luminaire Lumens: 1853.3 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<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



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### Luminous Intensity Polar Plot



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**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



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**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	

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**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

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Scaled Data Report



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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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