

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: P581882

Luminaire Tested: **HCC6W20D010BZ-HM60525835-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010BZ-HM60525835-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

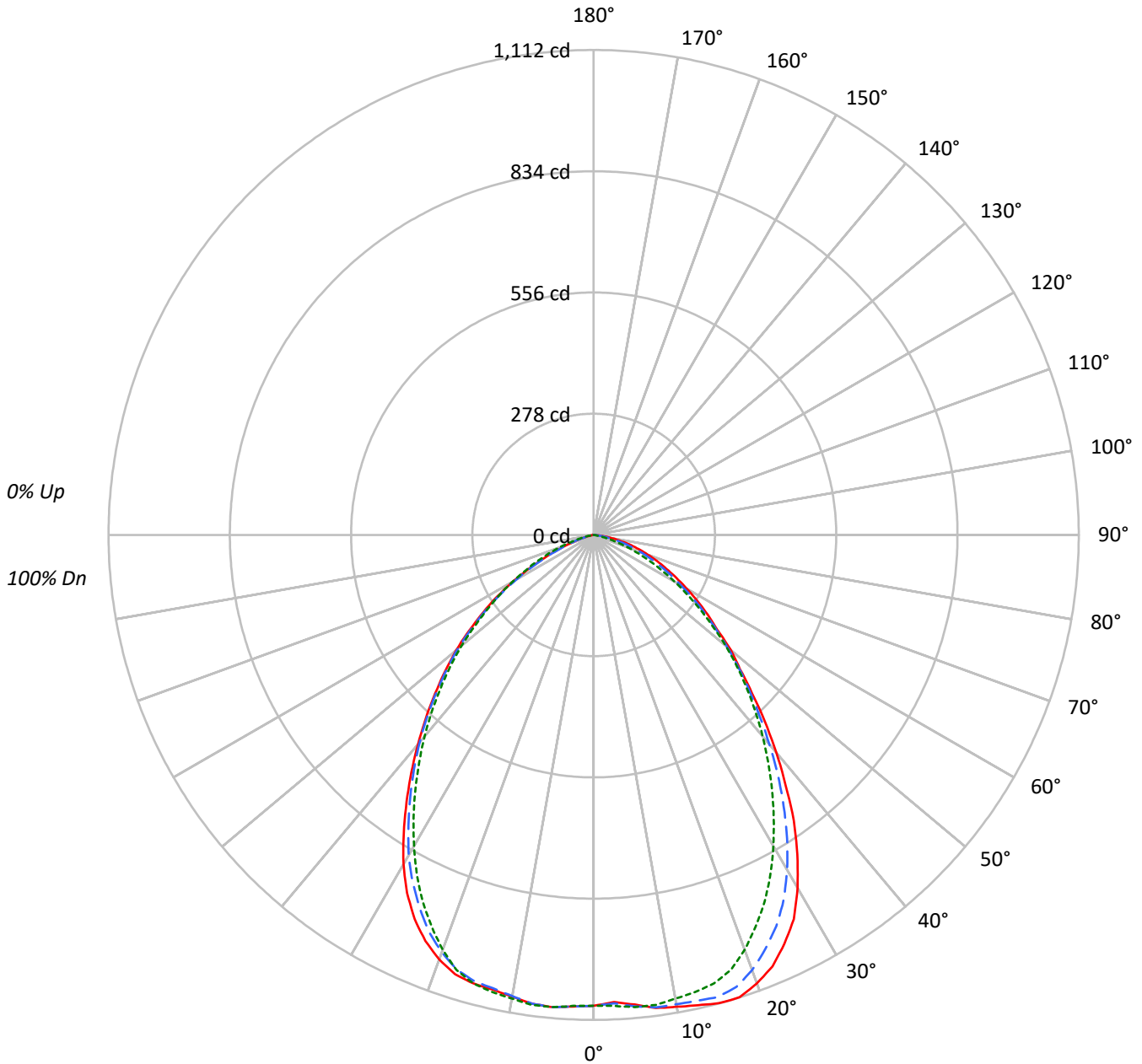
Lumens per Lamp: N/A  
Luminaire Lumens: 2179.4 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			
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	62	55	50	60	54	49	58	53	49	47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	59178	59178	59178
5°	59487	59812	59812
10°	61155	60091	59846
15°	63093	60437	60437
20°	63828	59050	60421
25°	62556	56096	58751
30°	59167	52135	55186
35°	53545	47669	50018
40°	46580	43124	44805
45°	39810	38446	39810
50°	34933	33688	35061
55°	30479	28386	29495
60°	26939	23573	23255
65°	23907	18588	15929
70°	21109	13127	9601
75°	17983	7434	4660
80°	13386	2336	1389
85°	7359	943	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	4.8
10°-20°	303.0	13.9
20°-30°	442.5	20.3
30°-40°	464.1	21.3
40°-50°	391.0	17.9
50°-60°	273.9	12.6
60°-70°	146.8	6.7
70°-80°	49.3	2.3
80°-90°	5.4	0.2
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°	849.0	39.0
0°-40°	1313.1	60.2
0°-60°	1978.0	90.8
0°-90°	2179.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1080	1080	1080	1080	1080	
5°	1081	1085	1087	1087	1087	104
15°	1112	1097	1065	1059	1065	314
25°	1034	990	927	943	971	474
35°	800	759	712	733	747	497
45°	514	505	496	509	514	400
55°	319	309	297	303	309	287
65°	184	168	143	118	123	184
75°	85	66	35	22	22	90
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°	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5
2.5°	1072.2	1072.2	1075.1	1078.0	1081.0	1081.0	1082.5	1083.9	1082.5
5°	1081.0	1081.0	1085.4	1086.9	1086.9	1085.4	1086.9	1086.9	1086.9
7.5°	1094.1	1091.2	1092.7	1089.7	1086.9	1085.4	1083.9	1083.9	1083.9
10°	1098.6	1095.6	1092.7	1086.9	1079.5	1075.1	1073.6	1075.1	1075.1
12.5°	1104.4	1101.5	1094.1	1082.5	1073.6	1066.4	1064.9	1067.9	1067.9
15°	1111.7	1108.8	1097.1	1078.0	1064.9	1057.5	1059.0	1062.0	1064.9
17.5°	1111.7	1105.8	1086.9	1062.0	1045.9	1038.6	1044.4	1051.8	1056.1
20°	1094.1	1088.2	1062.0	1031.3	1012.2	1007.8	1018.1	1031.3	1035.7
22.5°	1070.8	1059.0	1028.3	991.7	971.3	971.3	985.9	1002.0	1007.8
25°	1034.2	1025.4	990.2	947.9	927.4	925.9	943.4	965.4	971.3
27.5°	993.2	981.5	943.4	899.6	877.6	879.1	898.1	920.1	925.9
30°	934.7	920.1	886.5	844.0	823.6	829.4	848.4	864.5	871.8
32.5°	868.9	855.8	825.1	785.5	767.9	773.8	789.9	804.5	810.3
35°	800.1	785.5	759.2	724.1	712.3	718.2	732.8	744.6	747.4
37.5°	722.6	712.3	693.4	665.5	656.8	664.1	675.8	683.1	686.0
40°	650.9	642.2	626.1	605.6	602.6	608.5	620.2	624.6	626.1
42.5°	580.8	573.4	563.2	548.5	548.5	554.4	564.6	567.5	569.0
45°	513.5	509.1	504.6	493.0	495.9	503.2	509.1	513.5	513.5
47.5°	454.9	456.4	450.5	441.8	444.7	452.0	456.4	460.8	460.8
50°	409.6	405.2	399.4	390.5	395.0	400.9	406.6	409.6	411.1
52.5°	356.9	355.4	351.1	340.8	343.8	346.7	352.5	356.9	358.4
55°	318.9	314.5	308.6	297.0	297.0	299.9	302.7	305.7	308.6
57.5°	282.3	277.9	269.2	255.9	254.5	254.5	253.1	255.9	260.4
60°	245.7	244.3	231.1	219.5	215.0	210.6	204.7	206.2	212.1
62.5°	213.6	210.6	199.0	184.3	175.5	168.3	160.9	159.4	165.3
65°	184.3	181.4	168.3	153.6	143.3	130.2	118.5	118.5	122.8
67.5°	157.9	152.2	140.4	124.3	111.1	95.1	83.4	86.3	87.8
70°	131.7	127.2	114.1	98.0	81.9	65.8	58.5	59.9	59.9
72.5°	108.2	102.4	89.3	73.2	57.1	42.4	39.5	38.1	38.1
75°	84.9	79.0	65.8	49.7	35.1	24.8	22.0	22.0	22.0
77.5°	61.4	57.1	45.3	30.7	19.0	11.7	10.2	8.7	8.7
80°	42.4	38.1	27.8	16.1	7.4	4.4	4.4	4.4	4.4
82.5°	24.8	20.5	13.1	7.4	2.9	1.5	1.5	1.5	1.5
85°	11.7	8.7	5.9	2.9	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	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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