

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: P593030

Luminaire Tested: **HCC6S07D010BZ-HM60525850-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593030  
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: HCC6S07D010BZ-HM60525850-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

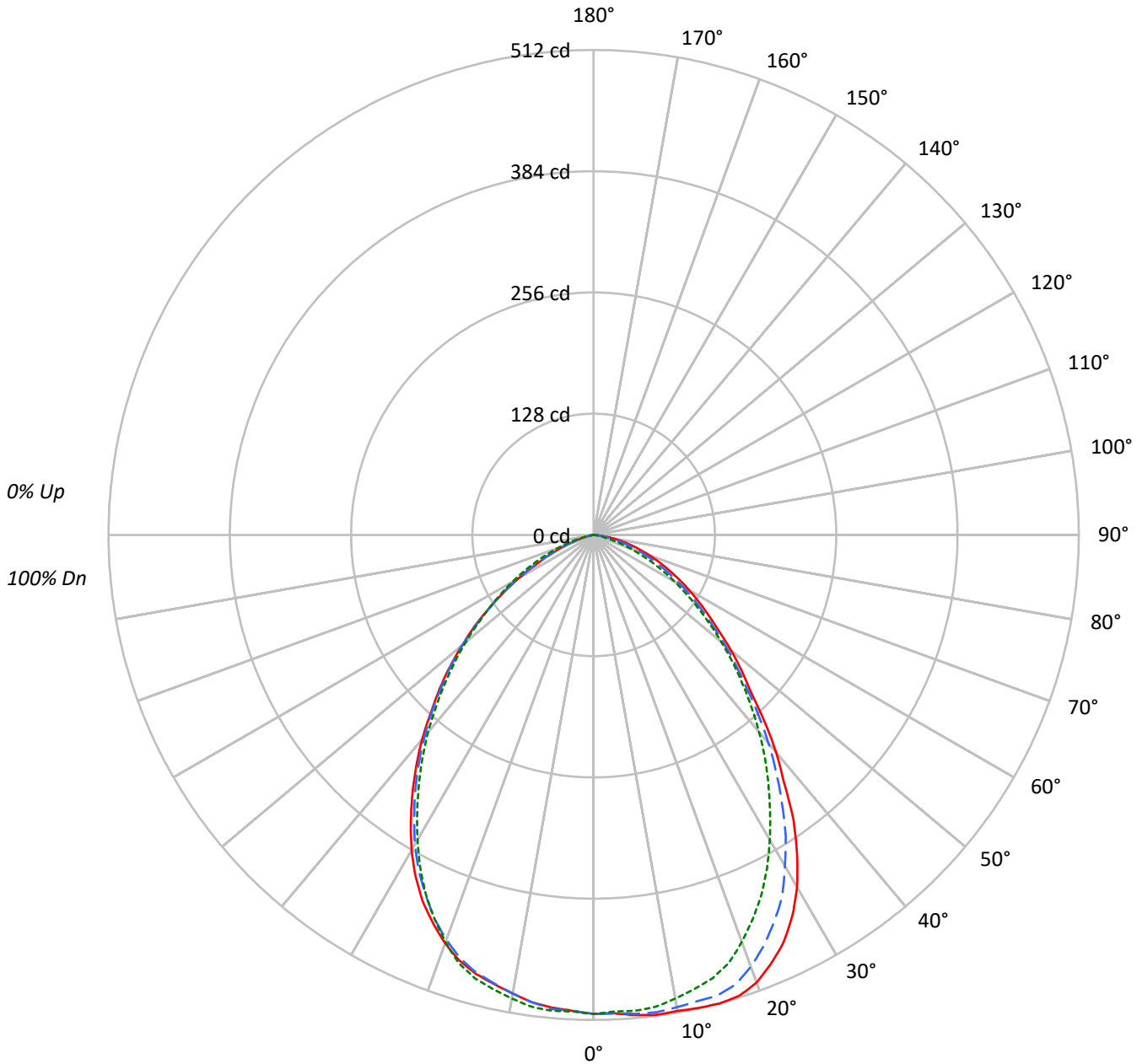
Lumens per Lamp: N/A  
Luminaire Lumens: 990.8 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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	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°	27723	27723	27723
5°	28005	27751	27570
10°	28406	27666	27371
15°	29069	27497	27231
20°	29338	26678	26754
25°	28701	25338	25816
30°	27181	23529	24327
35°	24614	21509	22305
40°	21440	19444	20159
45°	18188	17211	17831
50°	16110	15036	15428
55°	14183	12855	12798
60°	12718	10832	9955
65°	11350	8691	7134
70°	9986	6267	4472
75°	8430	3791	2521
80°	6472	1673	1042
85°	3774	440	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	4.8
10°-20°	137.9	13.9
20°-30°	199.4	20.1
30°-40°	209.8	21.2
40°-50°	176.4	17.8
50°-60°	123.8	12.5
60°-70°	68.1	6.9
70°-80°	24.2	2.4
80°-90°	3.2	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°	385.3	38.9
0°-40°	595.2	60.1
0°-60°	895.3	90.4
0°-90°	990.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	506	506	506	506	506	
5°	509	508	504	502	501	49
15°	512	504	484	478	480	145
25°	474	451	419	419	427	217
35°	368	347	321	328	333	228
45°	235	228	222	227	230	184
55°	148	140	134	134	134	134
65°	88	78	67	55	55	87
75°	40	32	18	12	12	43
85°	6	3	1	1	1	8
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°	505.7	505.7	505.7	505.7	505.7	505.7	505.7	505.7	505.7
2.5°	505.7	505.7	505.0	505.0	503.6	503.6	502.9	502.9	502.9
5°	508.9	508.9	507.6	505.7	504.3	502.4	502.4	501.7	501.0
7.5°	511.0	510.3	508.3	505.7	502.4	499.0	497.7	498.3	497.7
10°	510.3	508.9	506.3	501.0	497.0	492.4	491.7	491.0	491.7
12.5°	511.5	509.6	504.3	497.7	491.0	485.7	485.0	485.0	485.7
15°	512.2	510.3	503.6	493.8	484.5	479.1	478.5	479.1	479.8
17.5°	510.3	507.6	497.7	484.5	473.8	468.5	468.5	469.9	471.2
20°	502.9	499.0	485.0	469.2	457.3	453.3	454.6	457.3	458.6
22.5°	489.7	485.0	469.2	451.3	438.7	435.4	438.7	442.0	443.3
25°	474.5	469.2	450.6	432.1	418.9	414.8	419.4	424.8	426.8
27.5°	454.0	448.0	430.8	409.6	396.3	394.3	399.6	405.6	406.9
30°	429.4	422.8	403.6	383.7	371.7	371.1	377.1	382.4	384.3
32.5°	399.6	393.6	377.1	357.2	346.6	346.6	352.6	357.2	359.2
35°	367.8	361.2	346.6	330.0	321.4	322.1	328.0	331.4	333.3
37.5°	330.0	328.0	316.8	302.9	296.8	298.2	302.9	305.5	307.5
40°	299.6	294.2	287.0	275.7	271.7	273.1	277.7	280.3	281.7
42.5°	266.4	263.1	257.1	249.1	246.5	248.5	252.4	254.5	253.8
45°	234.6	234.0	228.0	223.3	222.0	224.7	227.3	229.3	230.0
47.5°	211.4	208.7	203.5	200.1	198.8	201.4	204.2	205.4	205.4
50°	188.9	186.3	180.9	177.7	176.3	178.9	180.9	182.2	180.9
52.5°	166.3	163.7	159.1	155.1	154.4	155.8	156.4	157.0	158.4
55°	148.4	145.8	140.5	135.8	134.5	135.2	134.5	134.5	133.9
57.5°	131.2	128.6	123.3	117.9	116.0	115.3	113.3	112.6	111.9
60°	116.0	112.6	107.4	101.4	98.8	96.1	92.8	90.8	90.8
62.5°	101.4	98.1	92.1	86.8	82.8	78.2	72.9	70.2	70.2
65°	87.5	84.9	78.2	72.3	67.0	61.0	55.0	53.7	55.0
67.5°	74.2	71.6	64.9	59.0	52.3	45.1	39.8	39.8	41.1
70°	62.3	59.6	53.7	46.3	39.1	31.8	27.9	27.9	27.9
72.5°	51.0	48.4	41.7	35.1	27.9	20.5	18.6	19.3	18.6
75°	39.8	37.7	31.8	24.5	17.9	12.6	11.9	11.2	11.9
77.5°	29.8	27.9	22.5	15.9	10.0	7.3	6.6	6.6	6.6
80°	20.5	18.6	14.6	9.3	5.3	3.3	3.3	3.3	3.3
82.5°	12.6	10.7	7.9	4.6	2.0	2.0	2.0	2.0	2.0
85°	6.0	4.6	3.3	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	0.7	0.7	0.0	0.7	0.7	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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