

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: P582945

Luminaire Tested: **HCC6S05D010BZ-HM60525930-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582945  
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: HCC6S05D010BZ-HM60525930-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

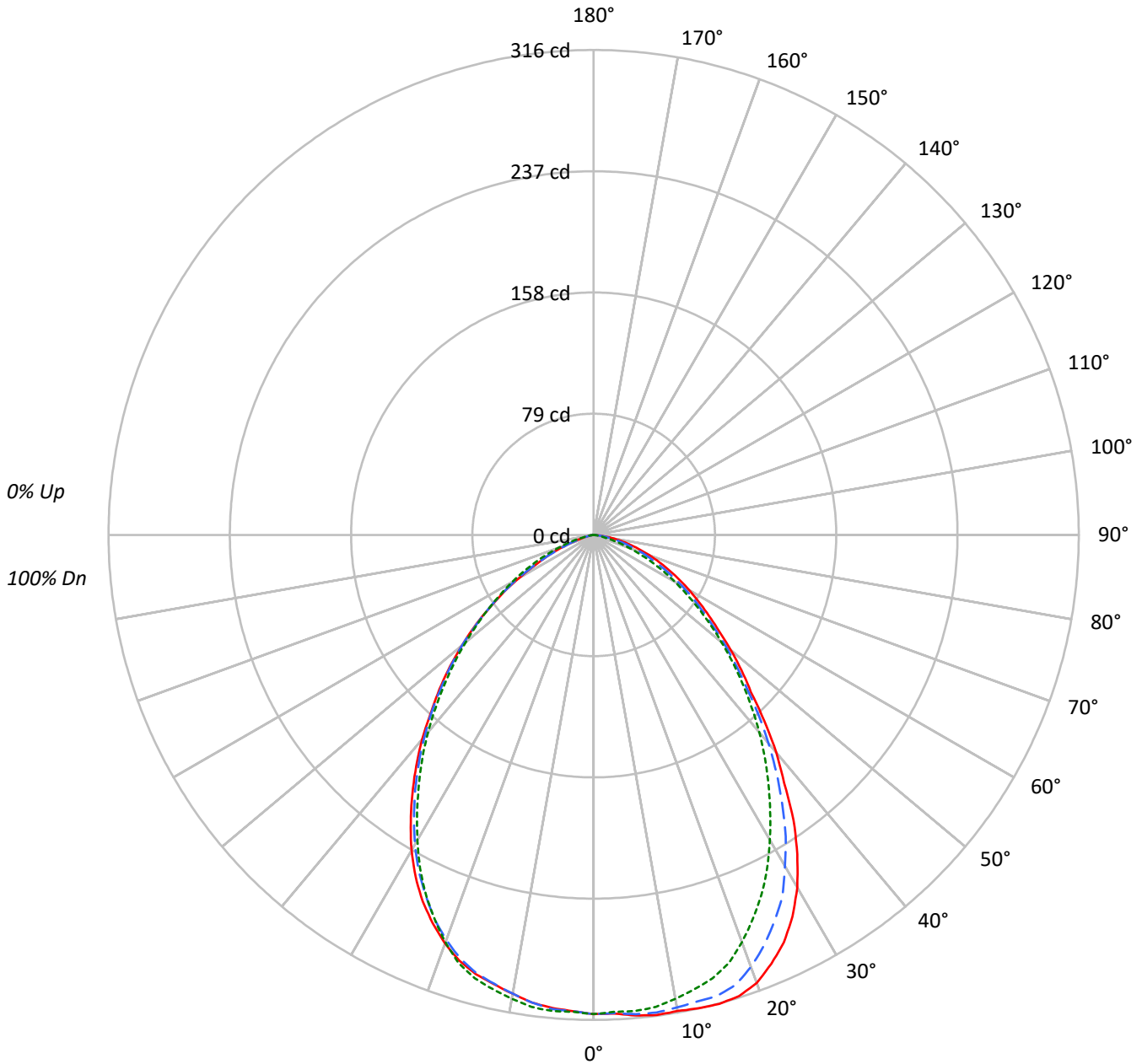
Lumens per Lamp: N/A  
Luminaire Lumens: 611.8 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	17115	17115	17115
5°	17296	17136	17026
10°	17535	17084	16900
15°	17951	16975	16816
20°	18120	16475	16521
25°	17723	15648	15938
30°	16787	14534	15021
35°	15198	13278	13779
40°	13239	12008	12445
45°	11234	10629	11009
50°	9944	9279	9535
55°	8755	7942	7904
60°	7850	6688	6140
65°	7005	5370	4410
70°	6155	3879	2757
75°	5189	2351	1546
80°	4009	1042	631
85°	2327	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.6	4.8
10°-20°	85.2	13.9
20°-30°	123.1	20.1
30°-40°	129.6	21.2
40°-50°	108.9	17.8
50°-60°	76.5	12.5
60°-70°	42.0	6.9
70°-80°	14.9	2.4
80°-90°	2.0	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°	238.0	38.9
0°-40°	367.5	60.1
0°-60°	552.9	90.4
0°-90°	611.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	312	312	312	312	312	
5°	314	314	311	310	309	30
15°	316	311	299	296	296	89
25°	293	278	259	259	264	134
35°	227	214	198	203	206	141
45°	145	141	137	140	142	114
55°	92	87	83	83	83	82
65°	54	48	41	34	34	54
75°	24	20	11	7	7	26
85°	4	2	0	0	0	5
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°	312.2	312.2	312.2	312.2	312.2	312.2	312.2	312.2	312.2
2.5°	312.2	312.2	311.8	311.8	311.0	311.0	310.6	310.6	310.6
5°	314.3	314.3	313.5	312.2	311.4	310.2	310.2	309.7	309.4
7.5°	315.5	315.0	313.9	312.2	310.2	308.2	307.4	307.7	307.4
10°	315.0	314.3	312.7	309.4	306.9	304.1	303.6	303.2	303.6
12.5°	315.9	314.7	311.4	307.4	303.2	299.9	299.6	299.6	299.9
15°	316.3	315.0	311.0	304.9	299.1	295.8	295.5	295.8	296.3
17.5°	315.0	313.5	307.4	299.1	292.6	289.3	289.3	290.2	291.0
20°	310.6	308.2	299.6	289.7	282.4	279.9	280.7	282.4	283.2
22.5°	302.4	299.6	289.7	278.7	270.9	268.8	270.9	272.9	273.8
25°	293.0	289.7	278.2	266.8	258.7	256.2	259.0	262.3	263.5
27.5°	280.4	276.6	266.0	252.9	244.8	243.5	246.8	250.4	251.2
30°	265.2	261.0	249.2	237.0	229.6	229.2	232.9	236.2	237.3
32.5°	246.8	243.1	232.9	220.6	214.0	214.0	217.8	220.6	221.8
35°	227.1	223.1	214.0	203.7	198.4	198.9	202.6	204.6	205.9
37.5°	203.7	202.6	195.6	187.0	183.3	184.2	187.0	188.6	189.8
40°	185.0	181.7	177.2	170.2	167.8	168.6	171.4	173.1	173.9
42.5°	164.5	162.5	158.8	153.9	152.2	153.5	155.9	157.2	156.7
45°	144.9	144.4	140.8	137.9	137.1	138.8	140.3	141.6	142.0
47.5°	130.5	128.9	125.7	123.6	122.7	124.4	126.0	126.9	126.9
50°	116.6	115.0	111.8	109.7	108.8	110.5	111.8	112.5	111.8
52.5°	102.7	101.0	98.2	95.7	95.4	96.2	96.6	97.0	97.7
55°	91.6	90.1	86.8	83.8	83.1	83.5	83.1	83.1	82.7
57.5°	81.0	79.4	76.2	72.9	71.6	71.2	69.9	69.6	69.2
60°	71.6	69.6	66.3	62.6	61.0	59.3	57.3	56.0	56.0
62.5°	62.6	60.6	56.8	53.6	51.2	48.3	45.0	43.4	43.4
65°	54.0	52.4	48.3	44.6	41.4	37.6	34.0	33.1	34.0
67.5°	45.9	44.2	40.1	36.4	32.3	27.8	24.5	24.5	25.4
70°	38.4	36.8	33.1	28.6	24.2	19.7	17.2	17.2	17.2
72.5°	31.5	29.8	25.8	21.7	17.2	12.7	11.4	11.9	11.4
75°	24.5	23.3	19.7	15.1	11.1	7.8	7.3	7.0	7.3
77.5°	18.4	17.2	13.9	9.8	6.1	4.5	4.1	4.1	4.1
80°	12.7	11.4	9.0	5.8	3.3	2.0	2.0	2.0	2.0
82.5°	7.8	6.6	4.9	2.8	1.2	1.2	1.2	1.2	1.2
85°	3.7	2.8	2.0	0.8	0.5	0.5	0.5	0.5	0.5
87.5°	0.8	0.8	0.5	0.5	0.0	0.5	0.5	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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