

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: P582962

Luminaire Tested: **HCC6S05D010BZ-HM60525935-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582962  
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: HCC6S05D010BZ-HM60525935-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

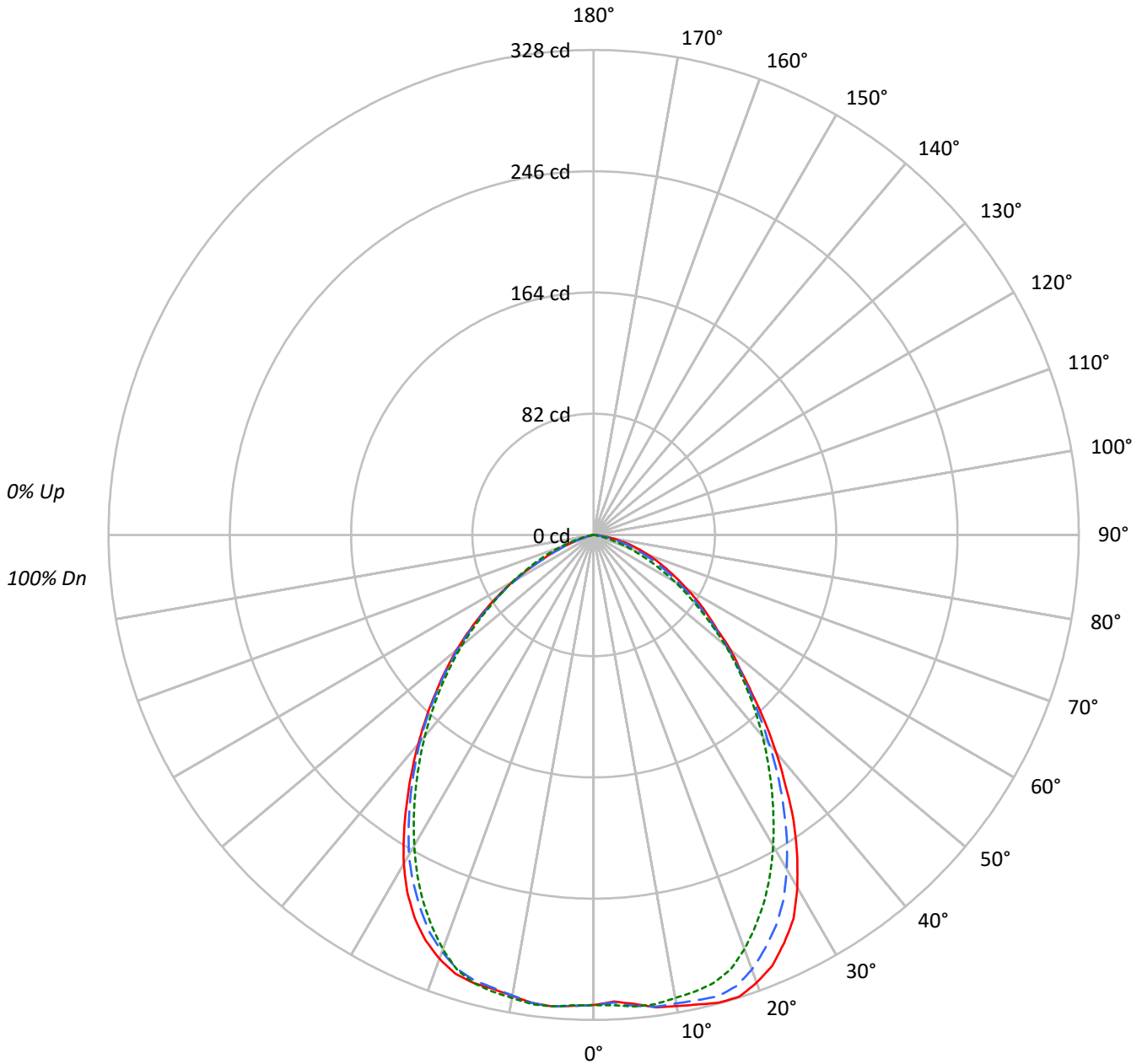
Lumens per Lamp: N/A  
Luminaire Lumens: 641.9 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): 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	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	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°	17433	17433	17433
5°	17521	17615	17615
10°	18008	17702	17624
15°	18587	17804	17804
20°	18802	17391	17793
25°	18424	16519	17305
30°	17427	15357	16249
35°	15774	14040	14730
40°	13726	12702	13196
45°	11722	11327	11722
50°	10294	9919	10319
55°	8975	8363	8688
60°	7938	6940	6853
65°	7031	5487	4696
70°	6219	3879	2821
75°	5295	2203	1356
80°	3946	663	379
85°	2201	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	4.8
10°-20°	89.2	13.9
20°-30°	130.3	20.3
30°-40°	136.7	21.3
40°-50°	115.2	17.9
50°-60°	80.7	12.6
60°-70°	43.3	6.7
70°-80°	14.5	2.3
80°-90°	1.6	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°	250.1	39.0
0°-40°	386.7	60.2
0°-60°	582.6	90.8
0°-90°	641.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	318	318	318	318	318	
5°	318	320	320	320	320	31
15°	328	323	314	312	314	92
25°	305	292	273	278	286	140
35°	236	224	210	216	220	146
45°	151	149	146	150	151	118
55°	94	91	88	89	91	85
65°	54	50	42	35	36	54
75°	25	19	10	6	6	27
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°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	315.8	315.8	316.6	317.5	318.4	318.4	318.8	319.2	318.8
5°	318.4	318.4	319.7	320.1	320.1	319.7	320.1	320.1	320.1
7.5°	322.3	321.4	321.8	320.9	320.1	319.7	319.2	319.2	319.2
10°	323.5	322.7	321.8	320.1	318.0	316.6	316.3	316.6	316.6
12.5°	325.3	324.4	322.3	318.8	316.3	314.0	313.7	314.5	314.5
15°	327.5	326.6	323.2	317.5	313.7	311.5	311.9	312.8	313.7
17.5°	327.5	325.7	320.1	312.8	308.0	305.9	307.6	309.7	311.1
20°	322.3	320.6	312.8	303.7	298.1	296.9	299.9	303.7	305.0
22.5°	315.4	311.9	302.8	292.1	286.1	286.1	290.4	295.2	296.9
25°	304.6	302.0	291.7	279.2	273.1	272.7	277.9	284.3	286.1
27.5°	292.6	289.1	277.9	265.0	258.5	258.9	264.5	271.0	272.7
30°	275.3	271.0	261.1	248.6	242.6	244.3	249.8	254.6	256.7
32.5°	255.9	252.0	243.0	231.3	226.2	227.9	232.7	237.0	238.7
35°	235.7	231.3	223.6	213.2	209.8	211.5	215.8	219.3	220.1
37.5°	212.8	209.8	204.2	196.1	193.5	195.6	199.0	201.3	202.0
40°	191.8	189.2	184.4	178.3	177.5	179.2	182.7	184.0	184.4
42.5°	171.1	168.9	165.9	161.6	161.6	163.3	166.3	167.1	167.6
45°	151.2	150.0	148.6	145.2	146.1	148.3	150.0	151.2	151.2
47.5°	134.0	134.5	132.7	130.1	131.0	133.1	134.5	135.7	135.7
50°	120.7	119.3	117.6	115.0	116.3	118.1	119.8	120.7	121.0
52.5°	105.1	104.6	103.4	100.3	101.2	102.2	103.8	105.1	105.5
55°	93.9	92.7	90.9	87.5	87.5	88.4	89.2	90.1	90.9
57.5°	83.2	81.8	79.3	75.4	74.9	74.9	74.6	75.4	76.7
60°	72.4	72.0	68.0	64.6	63.3	62.0	60.3	60.8	62.5
62.5°	62.9	62.0	58.6	54.2	51.8	49.5	47.3	47.0	48.7
65°	54.2	53.4	49.5	45.2	42.3	38.3	34.9	34.9	36.2
67.5°	46.6	44.9	41.4	36.6	32.8	28.0	24.5	25.4	25.9
70°	38.8	37.5	33.6	28.8	24.2	19.4	17.3	17.6	17.6
72.5°	31.9	30.2	26.3	21.6	16.8	12.5	11.6	11.2	11.2
75°	25.0	23.3	19.4	14.7	10.4	7.3	6.4	6.4	6.4
77.5°	18.1	16.8	13.3	9.0	5.6	3.5	3.1	2.6	2.6
80°	12.5	11.2	8.1	4.7	2.1	1.2	1.2	1.2	1.2
82.5°	7.3	6.0	3.8	2.1	0.9	0.5	0.5	0.5	0.5
85°	3.5	2.6	1.7	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	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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