

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: P582926

Luminaire Tested: **HCC6W05D010BZ-HM60525927-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582926  
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: HCC6W05D010BZ-HM60525927-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

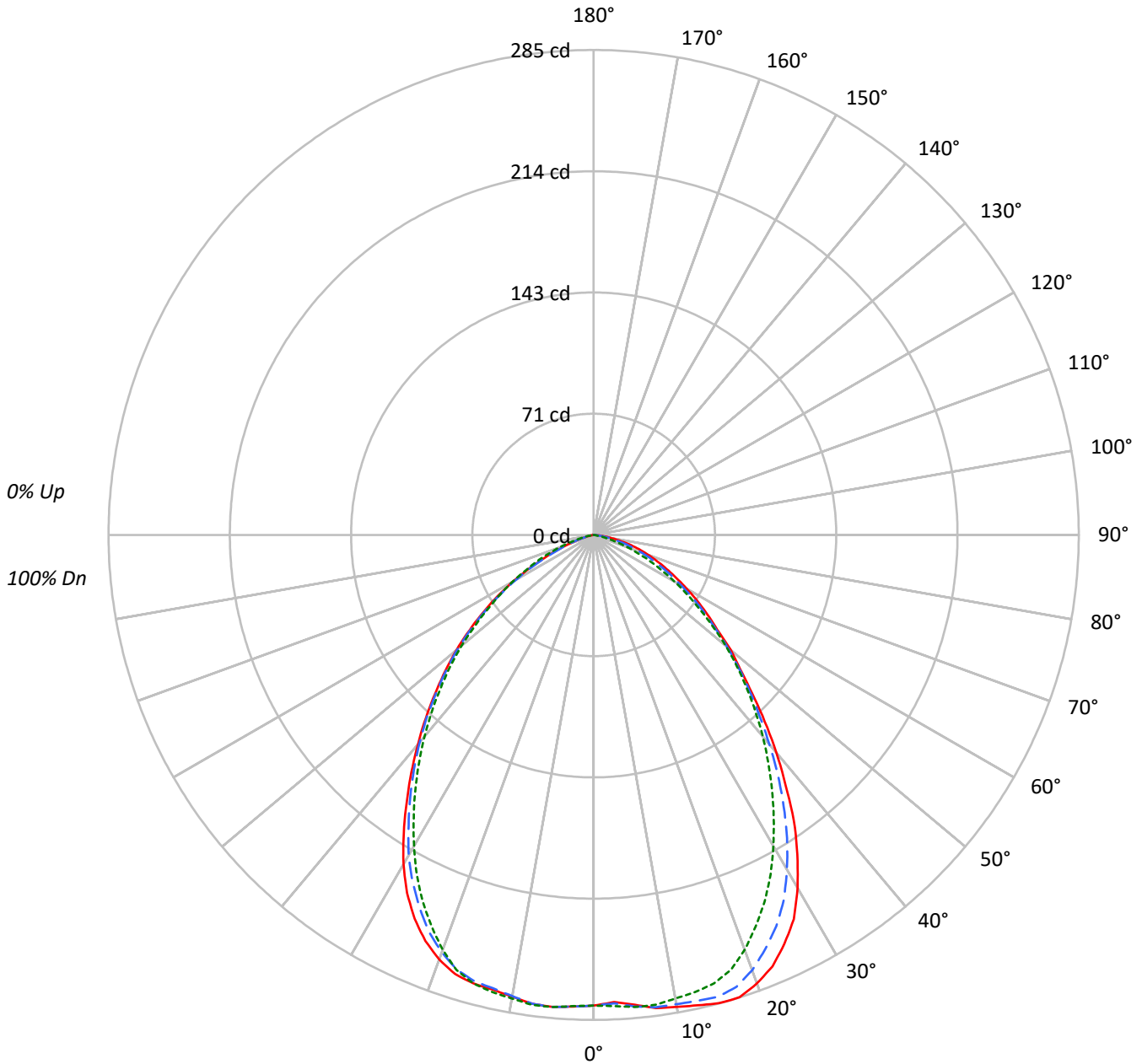
Lumens per Lamp: N/A  
Luminaire Lumens: 558.5 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (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	70	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°	15163	15163	15163
5°	15249	15326	15326
10°	15676	15397	15336
15°	16169	15488	15488
20°	16364	15133	15483
25°	16035	14372	15055
30°	15167	13363	14141
35°	13726	12220	12816
40°	11937	11056	11486
45°	10195	9854	10195
50°	8955	8631	8981
55°	7809	7264	7560
60°	6896	6041	5964
65°	6123	4761	4086
70°	5418	3366	2468
75°	4596	1906	1186
80°	3410	600	347
85°	1950	189	189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.5	4.8
10°-20°	77.6	13.9
20°-30°	113.4	20.3
30°-40°	118.9	21.3
40°-50°	100.2	17.9
50°-60°	70.2	12.6
60°-70°	37.6	6.7
70°-80°	12.6	2.3
80°-90°	1.4	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°	217.6	39.0
0°-40°	336.5	60.3
0°-60°	506.9	90.8
0°-90°	558.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	277	277	277	277	277	
5°	277	278	278	278	278	27
15°	285	281	273	271	273	80
25°	265	254	238	242	249	121
35°	205	195	183	188	192	127
45°	132	129	127	130	132	102
55°	82	79	76	78	79	74
65°	47	43	37	30	32	47
75°	22	17	9	6	6	23
85°	3	2	0	0	0	4
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°	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6
2.5°	274.8	274.8	275.5	276.3	277.1	277.1	277.4	277.8	277.4
5°	277.1	277.1	278.2	278.5	278.5	278.2	278.5	278.5	278.5
7.5°	280.5	279.7	280.0	279.3	278.5	278.2	277.8	277.8	277.8
10°	281.6	280.8	280.0	278.5	276.6	275.5	275.2	275.5	275.5
12.5°	283.1	282.3	280.5	277.4	275.2	273.3	272.9	273.7	273.7
15°	284.9	284.2	281.1	276.3	272.9	271.1	271.4	272.2	272.9
17.5°	284.9	283.4	278.5	272.2	268.0	266.1	267.7	269.5	270.6
20°	280.5	278.9	272.2	264.3	259.4	258.3	260.9	264.3	265.4
22.5°	274.4	271.4	263.5	254.1	248.9	248.9	252.7	256.8	258.3
25°	265.1	262.8	253.8	243.0	237.6	237.3	241.8	247.5	248.9
27.5°	254.6	251.5	241.8	230.5	225.0	225.3	230.2	235.8	237.3
30°	239.6	235.8	227.1	216.3	211.1	212.6	217.4	221.6	223.4
32.5°	222.7	219.3	211.4	201.4	196.8	198.3	202.4	206.2	207.7
35°	205.1	201.4	194.6	185.5	182.6	184.1	187.8	190.9	191.5
37.5°	185.2	182.6	177.7	170.6	168.4	170.2	173.2	175.0	175.8
40°	166.8	164.5	160.5	155.1	154.5	155.9	159.0	160.1	160.5
42.5°	148.8	146.9	144.3	140.6	140.6	142.0	144.8	145.4	145.9
45°	131.5	130.5	129.4	126.3	127.1	128.9	130.5	131.5	131.5
47.5°	116.6	117.0	115.5	113.2	114.0	115.8	117.0	118.1	118.1
50°	105.0	103.8	102.4	100.1	101.2	102.7	104.2	105.0	105.3
52.5°	91.4	91.1	89.9	87.3	88.1	88.8	90.4	91.4	91.9
55°	81.7	80.6	79.1	76.0	76.0	76.8	77.6	78.3	79.1
57.5°	72.3	71.2	68.9	65.7	65.2	65.2	64.9	65.7	66.8
60°	62.9	62.6	59.2	56.3	55.1	54.0	52.4	52.9	54.4
62.5°	54.7	54.0	51.0	47.2	45.0	43.2	41.2	40.9	42.4
65°	47.2	46.4	43.2	39.3	36.7	33.3	30.4	30.4	31.5
67.5°	40.5	39.0	35.9	31.9	28.5	24.4	21.4	22.1	22.5
70°	33.8	32.7	29.3	25.1	21.0	16.8	15.0	15.4	15.4
72.5°	27.8	26.2	22.8	18.8	14.6	10.8	10.2	9.7	9.7
75°	21.7	20.2	16.8	12.8	9.0	6.3	5.6	5.6	5.6
77.5°	15.7	14.6	11.6	7.9	4.9	3.1	2.6	2.3	2.3
80°	10.8	9.7	7.1	4.1	1.9	1.1	1.1	1.1	1.1
82.5°	6.3	5.2	3.4	1.9	0.8	0.3	0.3	0.3	0.3
85°	3.1	2.3	1.5	0.8	0.3	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.3	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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