

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: P582971

Luminaire Tested: **HCC6S05D010MW-HM60525935-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S05D010MW-HM60525935-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

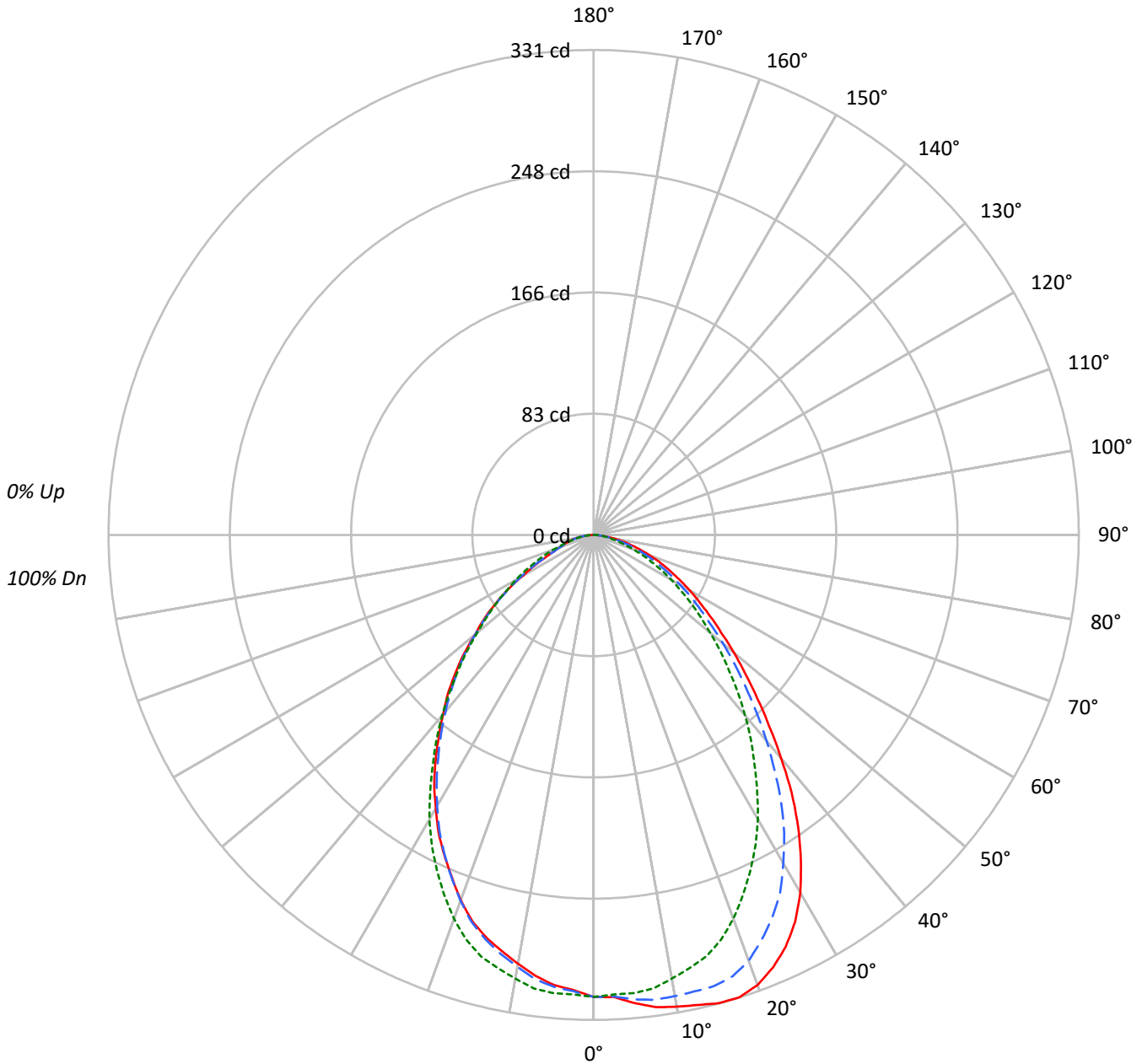
Lumens per Lamp: N/A  
Luminaire Lumens: 617.3 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	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	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	31					31			

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

	0°	90°	180°
0°	17285	17285	17285
5°	17653	17274	16971
10°	18197	17117	16544
15°	18774	16890	16129
20°	19071	16259	15477
25°	18757	15291	14584
30°	17851	14179	13635
35°	16282	12796	12588
40°	14241	11500	11436
45°	12257	10117	10350
50°	10652	8818	8998
55°	9300	7732	7818
60°	8267	6699	6129
65°	7368	5643	4696
70°	6491	4616	3927
75°	5549	3643	3728
80°	4483	3125	3662
85°	2956	2705	3271



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	4.8
10°-20°	85.0	13.8
20°-30°	121.3	19.6
30°-40°	127.1	20.6
40°-50°	107.0	17.3
50°-60°	76.1	12.3
60°-70°	44.5	7.2
70°-80°	21.1	3.4
80°-90°	5.4	0.9
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°	236.1	38.2
0°-40°	363.2	58.8
0°-60°	546.3	88.5
0°-90°	617.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	315	315	315	315	315	
5°	321	318	314	310	308	31
15°	331	319	298	286	284	93
25°	310	288	253	241	241	142
35°	243	223	191	185	188	151
45°	158	146	130	131	134	123
55°	97	89	81	81	82	88
65°	57	50	44	37	36	57
75°	26	22	17	17	18	28
85°	5	4	4	5	5	6
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°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3
2.5°	315.7	315.7	315.3	314.8	313.9	312.7	311.8	311.0	311.0
5°	320.8	320.0	318.2	316.1	313.9	311.3	309.6	308.4	308.4
7.5°	325.1	323.4	320.0	316.1	312.2	308.8	305.8	304.1	303.6
10°	326.9	324.8	319.6	313.6	307.5	302.7	299.3	297.2	297.2
12.5°	328.6	326.0	319.1	310.5	302.7	296.3	292.9	291.1	290.7
15°	330.8	327.2	318.7	307.9	297.6	290.3	285.6	284.2	284.2
17.5°	330.8	326.5	315.7	302.3	289.4	281.3	277.0	275.6	276.1
20°	326.9	322.2	309.2	292.9	278.7	270.1	265.7	264.9	265.3
22.5°	319.6	313.9	299.3	281.6	266.1	257.1	253.2	253.2	252.8
25°	310.1	304.1	288.2	269.6	252.8	243.7	240.7	241.1	241.1
27.5°	297.6	291.5	275.6	255.8	239.0	230.0	227.8	228.7	229.2
30°	282.0	275.6	258.8	239.4	224.0	214.9	213.6	214.9	215.4
32.5°	263.2	258.4	242.0	222.3	207.6	199.8	199.4	200.7	202.4
35°	243.3	238.2	223.1	205.0	191.2	184.8	184.8	186.9	188.1
37.5°	221.8	216.6	202.8	187.8	176.2	170.1	171.0	173.1	173.6
40°	199.0	195.0	183.5	170.5	160.7	155.9	157.2	159.3	159.8
42.5°	177.4	174.0	164.5	152.9	145.5	142.2	143.8	146.4	147.2
45°	158.1	154.1	146.4	136.5	130.5	128.8	131.0	132.7	133.5
47.5°	140.3	137.0	130.5	121.5	117.2	116.3	118.4	119.3	120.1
50°	124.9	121.5	115.0	106.8	103.4	103.4	105.1	106.0	105.5
52.5°	109.8	106.8	100.8	93.9	91.8	91.8	93.0	93.5	94.4
55°	97.3	94.4	89.2	82.7	80.9	80.1	80.9	80.9	81.8
57.5°	85.7	83.2	78.4	72.3	70.2	69.4	68.9	68.5	69.4
60°	75.4	73.2	68.0	62.8	61.1	59.0	57.3	55.6	55.9
62.5°	65.9	63.7	59.0	53.8	52.1	49.0	46.9	44.7	45.7
65°	56.8	54.7	50.4	46.1	43.5	40.0	36.6	35.4	36.2
67.5°	48.7	46.9	42.6	38.3	36.2	32.3	28.8	28.8	29.3
70°	40.5	38.8	35.4	31.4	28.8	25.4	24.1	24.5	24.5
72.5°	33.1	31.9	28.5	25.0	22.4	20.2	20.2	20.7	21.1
75°	26.2	25.4	21.9	19.0	17.2	15.9	16.8	17.2	17.6
77.5°	20.2	19.0	16.4	14.2	12.9	13.3	14.2	14.7	15.0
80°	14.2	13.8	11.6	10.3	9.9	10.3	11.2	11.6	11.6
82.5°	9.0	8.6	7.3	6.9	6.9	7.3	8.1	8.1	8.1
85°	4.7	4.3	3.8	3.8	4.3	4.7	5.2	5.2	5.2
87.5°	1.7	1.2	1.7	1.7	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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