

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: P582880

Luminaire Tested: **HCC6W05D010MB-HM60525830-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W05D010MB-HM60525830-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

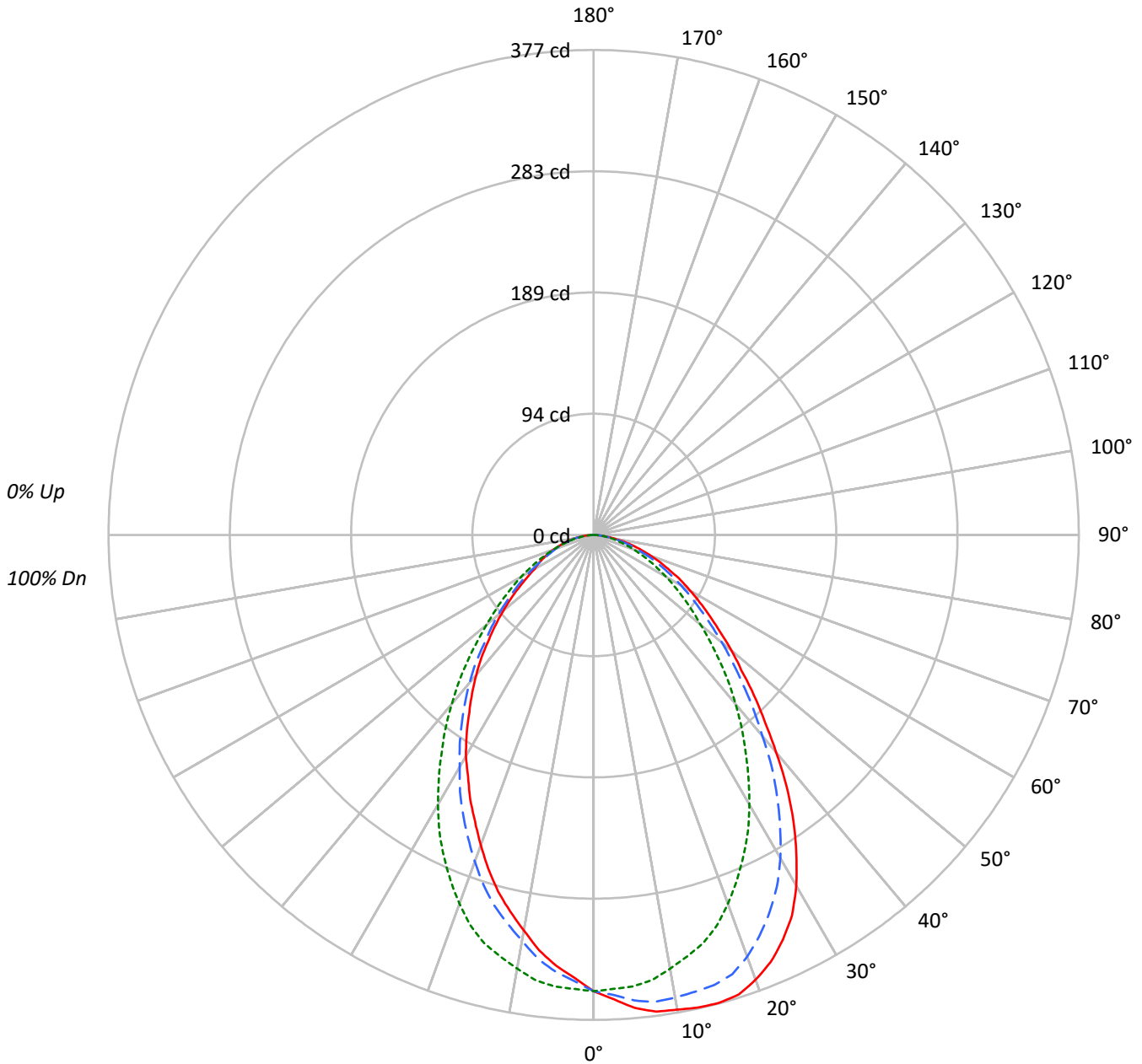
Lumens per Lamp: N/A  
Luminaire Lumens: 660.7 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

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

	0°	90°	180°
0°	19445	19445	19445
5°	20311	19387	18495
10°	20858	19054	17379
15°	21374	18644	16283
20°	21469	17793	14958
25°	21019	16664	13719
30°	19940	15319	12565
35°	18109	13773	11277
40°	15787	12266	10148
45°	13660	10730	8916
50°	11931	9245	7812
55°	10542	8124	6709
60°	9473	7127	5811
65°	8483	6187	5630
70°	7565	5273	5273
75°	6587	4448	4956
80°	5272	3788	4546
85°	3648	3271	3900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	5.0
10°-20°	92.7	14.0
20°-30°	129.1	19.5
30°-40°	133.1	20.1
40°-50°	110.3	16.7
50°-60°	79.3	12.0
60°-70°	50.5	7.6
70°-80°	25.9	3.9
80°-90°	6.6	1.0
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°	255.1	38.6
0°-40°	388.2	58.8
0°-60°	577.7	87.4
0°-90°	660.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	355	355	355	355	355	
5°	369	363	352	341	336	35
15°	377	362	328	298	287	106
25°	348	324	276	240	227	159
35°	271	249	206	178	168	168
45°	176	164	138	121	115	136
55°	110	101	85	75	70	99
65°	65	58	48	42	43	65
75°	31	27	21	22	23	33
85°	6	5	5	6	6	7
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°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7
2.5°	361.4	359.9	358.0	356.2	353.2	350.0	347.0	346.1	344.6
5°	369.1	367.1	363.3	358.5	352.3	346.1	340.8	337.5	336.1
7.5°	373.8	371.4	366.1	358.0	348.9	339.9	332.2	327.5	325.6
10°	374.7	372.3	365.2	354.3	342.3	329.8	320.4	314.6	312.2
12.5°	376.2	372.8	363.7	350.9	335.6	321.3	309.4	302.2	299.8
15°	376.6	372.8	362.3	346.6	328.5	311.2	298.3	289.7	286.9
17.5°	374.7	370.4	358.0	338.9	318.4	300.2	285.0	275.9	272.1
20°	368.0	363.3	348.9	327.5	305.0	286.0	270.2	260.7	256.4
22.5°	359.5	353.2	337.1	314.1	290.7	270.6	254.9	245.3	241.0
25°	347.5	341.8	323.6	299.3	275.5	254.5	240.1	230.1	226.8
27.5°	333.7	327.0	308.4	284.1	259.7	238.7	224.9	215.8	211.4
30°	315.0	308.8	290.3	265.9	242.0	222.5	208.1	200.5	198.5
32.5°	293.1	287.8	269.7	246.8	223.9	205.8	193.8	185.7	183.7
35°	270.6	264.4	248.7	227.2	205.8	189.5	178.5	171.4	168.5
37.5°	246.3	240.6	227.2	208.1	189.0	173.8	164.2	158.0	155.1
40°	220.6	216.3	203.9	188.6	171.4	158.0	150.0	144.6	141.8
42.5°	196.7	192.3	183.7	169.5	155.1	143.2	136.1	131.3	128.9
45°	176.2	172.3	163.7	151.3	138.4	128.4	120.8	117.4	115.0
47.5°	155.6	153.7	146.1	134.6	122.7	114.1	108.8	105.0	103.2
50°	139.9	137.5	130.3	118.4	108.4	101.7	97.0	93.6	91.6
52.5°	123.6	121.2	114.6	104.5	96.4	90.2	85.4	82.6	80.7
55°	110.3	108.4	101.2	92.1	85.0	79.8	75.4	72.1	70.2
57.5°	97.9	95.9	89.3	80.7	74.5	69.7	65.9	63.1	60.7
60°	86.4	85.0	78.3	70.2	65.0	60.1	56.8	54.5	53.0
62.5°	76.4	73.6	67.8	60.7	55.8	52.0	48.7	47.2	48.3
65°	65.4	64.0	58.2	52.0	47.7	44.0	41.6	42.5	43.4
67.5°	56.3	54.5	49.6	44.0	40.1	37.3	35.8	37.7	38.2
70°	47.2	45.3	41.0	36.3	32.9	31.1	31.1	32.4	32.9
72.5°	38.6	37.3	33.4	29.6	27.2	25.8	26.8	27.7	28.1
75°	31.1	29.6	26.8	23.4	21.0	21.0	21.9	22.9	23.4
77.5°	23.8	22.9	20.0	17.6	16.7	16.7	17.6	18.2	18.6
80°	16.7	15.7	14.4	12.9	12.0	12.9	13.9	13.9	14.4
82.5°	11.0	10.5	9.5	8.6	8.6	9.0	9.5	10.1	10.1
85°	5.8	5.8	5.2	4.7	5.2	5.8	5.8	6.2	6.2
87.5°	1.9	1.9	1.9	1.9	2.4	2.4	2.4	2.4	2.4
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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