

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: P592993

Luminaire Tested: **HCC6W05D010MB-HM60525850-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592993  
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: HCC6W05D010MB-HM60525850-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

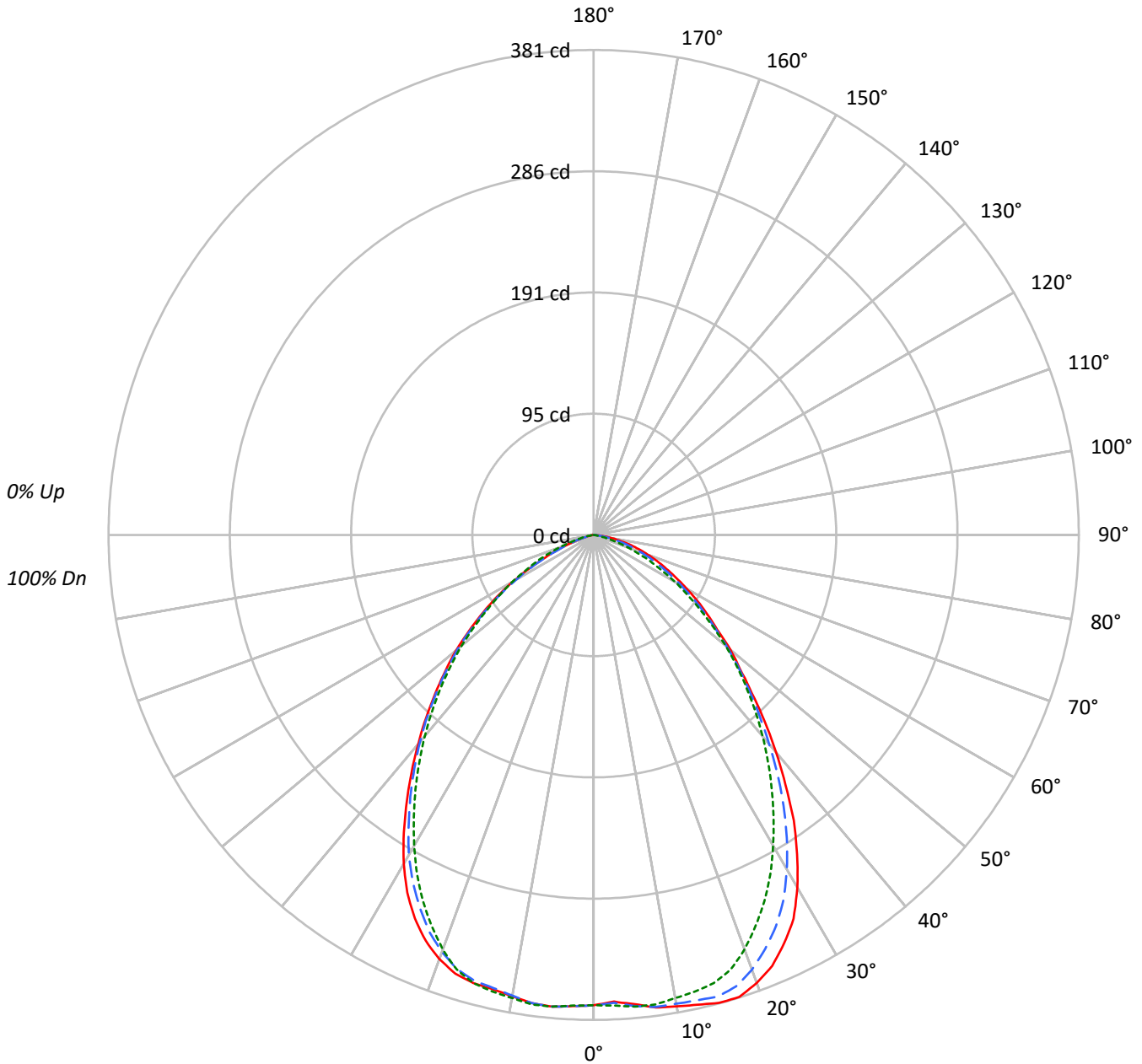
Lumens per Lamp: N/A  
Luminaire Lumens: 746.0 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
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	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	20256	20256	20256
5°	20361	20471	20471
10°	20936	20569	20485
15°	21601	20687	20687
20°	21848	20214	20681
25°	21413	19199	20106
30°	20250	17845	18889
35°	18330	16323	17119
40°	15944	14763	15329
45°	13622	13156	13622
50°	11957	11522	12000
55°	10437	9711	10102
60°	9221	8070	7949
65°	8185	6356	5448
70°	7229	4488	3302
75°	6142	2542	1589
80°	4578	789	474
85°	2516	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.4	4.8
10°-20°	103.7	13.9
20°-30°	151.5	20.3
30°-40°	158.8	21.3
40°-50°	133.8	17.9
50°-60°	93.8	12.6
60°-70°	50.3	6.7
70°-80°	16.9	2.3
80°-90°	1.8	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°	290.6	39.0
0°-40°	449.5	60.3
0°-60°	677.0	90.8
0°-90°	746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	370	372	372	372	372	36
15°	381	376	364	362	364	107
25°	354	339	317	323	332	162
35°	274	260	244	251	256	170
45°	176	173	170	174	176	137
55°	109	106	102	104	106	98
65°	63	58	49	41	42	63
75°	29	22	12	8	8	31
85°	4	2	0	0	0	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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	367.0	367.0	368.0	369.1	370.0	370.0	370.5	371.0	370.5
5°	370.0	370.0	371.5	372.0	372.0	371.5	372.0	372.0	372.0
7.5°	374.5	373.6	374.0	373.0	372.0	371.5	371.0	371.0	371.0
10°	376.1	375.0	374.0	372.0	369.5	368.0	367.5	368.0	368.0
12.5°	378.0	377.1	374.5	370.5	367.5	365.0	364.5	365.6	365.6
15°	380.6	379.6	375.5	369.1	364.5	362.1	362.5	363.5	364.5
17.5°	380.6	378.5	372.0	363.5	358.0	355.5	357.5	360.0	361.5
20°	374.5	372.6	363.5	353.0	346.5	345.0	348.5	353.0	354.5
22.5°	366.5	362.5	352.0	339.5	332.4	332.4	337.4	343.0	345.0
25°	354.0	351.0	339.0	324.4	317.4	317.0	323.0	330.4	332.4
27.5°	340.0	335.9	323.0	307.9	300.5	300.9	307.5	314.9	317.0
30°	319.9	314.9	303.4	288.9	281.9	283.9	290.4	295.9	298.4
32.5°	297.4	292.9	282.4	268.8	262.8	264.9	270.4	275.4	277.4
35°	273.9	268.8	259.9	247.8	243.9	245.9	250.9	254.8	255.8
37.5°	247.4	243.9	237.3	227.8	224.9	227.4	231.3	233.8	234.8
40°	222.8	219.8	214.2	207.2	206.3	208.3	212.3	213.8	214.2
42.5°	198.8	196.3	192.8	187.8	187.8	189.7	193.2	194.2	194.8
45°	175.7	174.2	172.8	168.7	169.7	172.2	174.2	175.7	175.7
47.5°	155.7	156.2	154.2	151.2	152.2	154.7	156.2	157.7	157.7
50°	140.2	138.7	136.7	133.7	135.1	137.2	139.2	140.2	140.7
52.5°	122.2	121.7	120.1	116.6	117.6	118.6	120.7	122.2	122.7
55°	109.2	107.7	105.7	101.6	101.6	102.6	103.6	104.6	105.7
57.5°	96.6	95.1	92.1	87.6	87.1	87.1	86.7	87.6	89.2
60°	84.1	83.6	79.1	75.1	73.6	72.1	70.1	70.6	72.5
62.5°	73.1	72.1	68.1	63.1	60.1	57.6	55.0	54.6	56.6
65°	63.1	62.0	57.6	52.5	49.0	44.5	40.6	40.6	42.0
67.5°	54.1	52.1	48.0	42.6	38.1	32.5	28.6	29.5	30.1
70°	45.1	43.5	39.1	33.6	28.0	22.5	20.0	20.6	20.6
72.5°	37.1	35.0	30.5	25.1	19.5	14.5	13.6	13.0	13.0
75°	29.0	27.0	22.5	17.1	12.0	8.5	7.5	7.5	7.5
77.5°	21.0	19.5	15.5	10.5	6.6	4.0	3.5	3.1	3.1
80°	14.5	13.0	9.5	5.5	2.5	1.5	1.5	1.5	1.5
82.5°	8.5	7.0	4.5	2.5	1.0	0.5	0.5	0.5	0.5
85°	4.0	3.1	2.0	1.0	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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