

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: P582899

Luminaire Tested: **HCC6W05D010MW-HM60525835-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582899  
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: HCC6W05D010MW-HM60525835-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 695.1 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

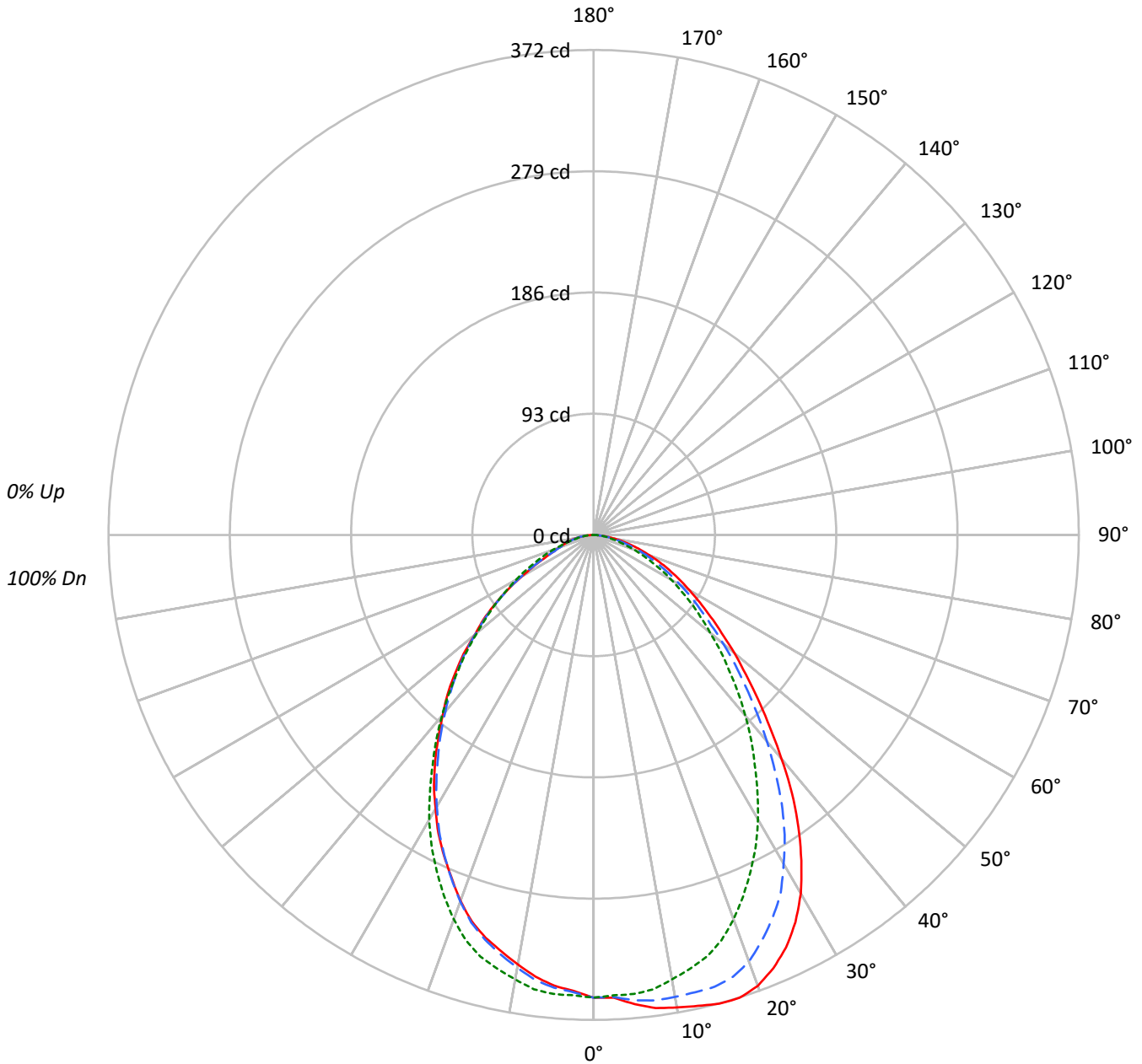
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52	52	52	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46	46	46	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42	42	42	42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38	38	38	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34	34	34	34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31	31	31	31

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

	0°	90°	180°
0°	19456	19456	19456
5°	19882	19453	19101
10°	20485	19272	18626
15°	21130	19013	18161
20°	21469	18301	17426
25°	21122	17215	16422
30°	20104	15958	15344
35°	18330	14409	14181
40°	16030	12946	12874
45°	13800	11389	11652
50°	11991	9927	10132
55°	10475	8717	8803
60°	9308	7543	6918
65°	8302	6343	5279
70°	7293	5193	4440
75°	6270	4109	4215
80°	5051	3536	4136
85°	3334	3082	3648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.6	4.8
10°-20°	95.7	13.8
20°-30°	136.6	19.6
30°-40°	143.1	20.6
40°-50°	120.4	17.3
50°-60°	85.7	12.3
60°-70°	50.2	7.2
70°-80°	23.7	3.4
80°-90°	6.1	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°	265.8	38.2
0°-40°	408.9	58.8
0°-60°	615.1	88.5
0°-90°	695.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	695.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	355	355	355	355	355	
5°	361	358	354	349	347	35
15°	372	359	335	322	320	105
25°	349	324	285	271	272	160
35°	274	251	215	208	212	170
45°	178	165	147	147	150	138
55°	110	100	91	91	92	99
65°	64	57	49	41	41	64
75°	30	25	19	19	20	32
85°	5	4	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°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9
2.5°	355.4	355.4	354.9	354.5	353.5	352.0	351.1	350.1	350.1
5°	361.3	360.2	358.3	356.0	353.5	350.5	348.6	347.1	347.1
7.5°	366.1	364.2	360.2	356.0	351.5	347.7	344.3	342.3	341.8
10°	368.0	365.6	359.8	353.0	346.2	340.9	337.0	334.6	334.6
12.5°	370.0	367.0	359.3	349.6	340.9	333.6	329.7	327.8	327.2
15°	372.3	368.5	358.8	346.7	335.0	326.8	321.5	320.0	320.0
17.5°	372.3	367.6	355.4	340.4	325.9	316.6	311.8	310.3	310.9
20°	368.0	362.7	348.2	329.7	313.7	304.0	299.2	298.2	298.7
22.5°	359.8	353.5	337.0	317.1	299.7	289.5	285.1	285.1	284.6
25°	349.2	342.3	324.4	303.5	284.6	274.5	271.1	271.5	271.5
27.5°	335.0	328.3	310.3	288.0	269.2	258.9	256.5	257.5	258.0
30°	317.6	310.3	291.4	269.6	252.1	241.9	240.5	241.9	242.4
32.5°	296.3	291.0	272.6	250.2	233.7	225.0	224.5	226.0	227.9
35°	273.9	268.1	251.2	230.9	215.3	208.0	208.0	210.4	211.9
37.5°	249.7	243.9	228.4	211.4	198.3	191.5	192.6	194.9	195.4
40°	224.0	219.7	206.6	192.0	180.9	175.5	177.0	179.4	179.9
42.5°	199.8	195.9	185.2	172.1	163.8	160.0	161.9	164.9	165.9
45°	178.0	173.6	164.9	153.7	146.9	145.0	147.4	149.4	150.3
47.5°	158.1	154.2	146.9	136.7	131.9	131.0	133.3	134.4	135.3
50°	140.6	136.7	129.5	120.2	116.4	116.4	118.3	119.3	118.8
52.5°	123.6	120.2	113.5	105.7	103.3	103.3	104.8	105.2	106.2
55°	109.6	106.2	100.3	93.1	91.2	90.2	91.2	91.2	92.1
57.5°	96.5	93.6	88.3	81.5	79.0	78.1	77.6	77.1	78.1
60°	84.9	82.4	76.6	70.7	68.8	66.4	64.5	62.6	63.1
62.5°	74.2	71.8	66.4	60.6	58.6	55.3	52.9	50.4	51.4
65°	64.0	61.6	56.7	51.9	48.9	45.1	41.2	39.8	40.7
67.5°	54.8	52.9	48.0	43.2	40.7	36.4	32.4	32.4	33.0
70°	45.5	43.6	39.8	35.4	32.4	28.6	27.1	27.7	27.7
72.5°	37.3	35.9	32.0	28.1	25.2	22.8	22.8	23.3	23.7
75°	29.6	28.6	24.7	21.4	19.4	18.0	18.9	19.4	19.9
77.5°	22.8	21.4	18.4	16.0	14.6	15.0	16.0	16.5	17.0
80°	16.0	15.5	13.1	11.6	11.2	11.6	12.7	13.1	13.1
82.5°	10.2	9.7	8.2	7.8	7.8	8.2	9.3	9.3	9.3
85°	5.3	4.9	4.4	4.4	4.9	5.3	5.8	5.8	5.8
87.5°	1.9	1.5	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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