

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: P581674

Luminaire Tested: **HCC6W10D010MW-HM60525935-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581674  
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: HCC6W10D010MW-HM60525935-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

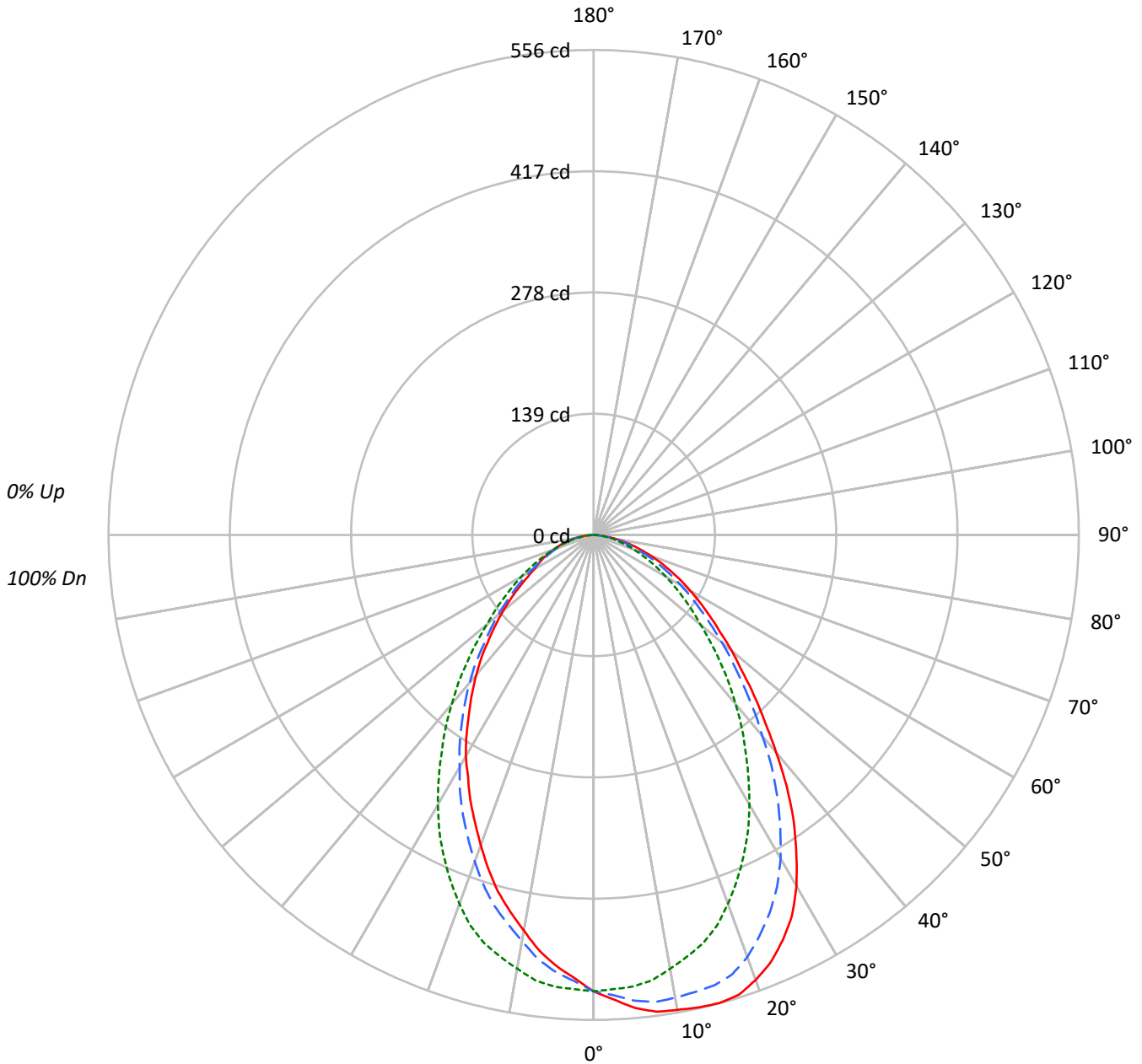
Lumens per Lamp: N/A  
Luminaire Lumens: 974.7 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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	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°	28682	28682	28682
5°	29958	28599	27284
10°	30778	28111	25640
15°	31538	27497	24024
20°	31678	26252	22064
25°	31012	24582	20233
30°	29422	22598	18547
35°	26729	20311	16637
40°	23279	18091	14971
45°	20149	15831	13156
50°	17603	13629	11539
55°	15550	11976	9902
60°	13979	10504	8574
65°	12505	9132	8315
70°	11172	7790	7790
75°	9680	6566	7307
80°	7798	5588	6693
85°	5346	4843	5787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	5.0
10°-20°	136.7	14.0
20°-30°	190.5	19.5
30°-40°	196.3	20.1
40°-50°	162.7	16.7
50°-60°	116.9	12.0
60°-70°	74.4	7.6
70°-80°	38.2	3.9
80°-90°	9.7	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°	376.4	38.6
0°-40°	572.7	58.8
0°-60°	852.3	87.4
0°-90°	974.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	974.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	523	523	523	523	523	
5°	544	536	520	503	496	52
15°	556	534	484	440	423	157
25°	513	478	406	354	334	235
35°	399	367	304	263	249	248
45°	260	242	204	178	170	201
55°	163	149	125	111	104	147
65°	96	86	70	61	64	97
75°	46	39	31	32	34	49
85°	8	8	8	8	9	11
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°	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2
2.5°	533.2	531.0	528.2	525.4	521.2	516.2	512.0	510.6	508.5
5°	544.4	541.5	535.9	528.9	519.7	510.6	502.8	498.0	495.8
7.5°	551.4	547.9	540.2	528.2	514.8	501.5	490.2	483.1	480.3
10°	552.9	549.4	538.7	522.5	505.0	486.6	472.6	464.1	460.6
12.5°	554.9	550.0	536.7	517.7	495.1	474.0	456.3	445.8	442.3
15°	555.7	550.0	534.5	511.3	484.5	459.1	440.1	427.4	423.3
17.5°	552.9	546.5	528.2	500.0	469.8	443.0	420.4	407.1	401.4
20°	543.0	535.9	514.8	483.1	450.0	421.9	398.6	384.5	378.2
22.5°	530.3	521.2	497.2	463.4	428.9	399.4	376.1	362.0	355.7
25°	512.7	504.3	477.5	441.6	406.4	375.4	354.2	339.5	334.5
27.5°	492.3	482.5	455.0	419.1	383.1	352.2	331.7	318.3	312.0
30°	464.8	455.6	428.2	392.2	357.0	328.2	307.1	295.8	293.0
32.5°	432.4	424.7	397.9	364.1	330.3	303.5	285.9	273.9	271.1
35°	399.4	390.2	366.9	335.2	303.5	279.6	263.4	252.8	248.6
37.5°	363.4	355.0	335.2	307.1	278.9	256.4	242.2	233.1	228.9
40°	325.3	319.0	300.8	278.1	252.8	233.1	221.2	213.4	209.2
42.5°	290.1	283.8	271.1	250.1	228.9	211.2	200.7	193.7	190.2
45°	259.9	254.2	241.6	223.2	204.2	189.5	178.2	173.2	169.7
47.5°	229.6	226.7	215.5	198.6	181.0	168.3	160.5	155.0	152.1
50°	206.4	202.9	192.2	174.7	159.8	150.0	143.0	138.0	135.3
52.5°	182.4	178.9	169.0	154.2	142.3	133.1	126.1	121.8	119.0
55°	162.7	159.8	149.3	136.0	125.3	117.6	111.3	106.3	103.6
57.5°	144.3	141.6	131.7	119.0	109.9	102.8	97.2	92.9	89.4
60°	127.5	125.3	115.5	103.6	95.8	88.7	83.8	80.3	78.2
62.5°	112.6	108.4	100.0	89.4	82.4	76.7	71.9	69.7	71.1
65°	96.4	94.4	85.9	76.7	70.4	64.8	61.2	62.7	64.1
67.5°	83.1	80.3	73.2	64.8	59.2	54.9	52.9	55.6	56.4
70°	69.7	66.9	60.6	53.5	48.6	45.7	45.7	47.9	48.6
72.5°	57.1	54.9	49.2	43.7	40.2	38.0	39.4	40.9	41.5
75°	45.7	43.7	39.4	34.5	31.0	31.0	32.4	33.8	34.5
77.5°	35.2	33.8	29.5	26.0	24.7	24.7	26.0	26.7	27.5
80°	24.7	23.2	21.2	19.0	17.7	19.0	20.4	20.4	21.2
82.5°	16.2	15.5	14.0	12.7	12.7	13.4	14.0	14.8	14.8
85°	8.5	8.5	7.7	7.0	7.7	8.5	8.5	9.2	9.2
87.5°	2.8	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5
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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