

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: P581657

Luminaire Tested: **HCC6W10D010MW-HM60525930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581657
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: HCC6W10D010MW-HM60525930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

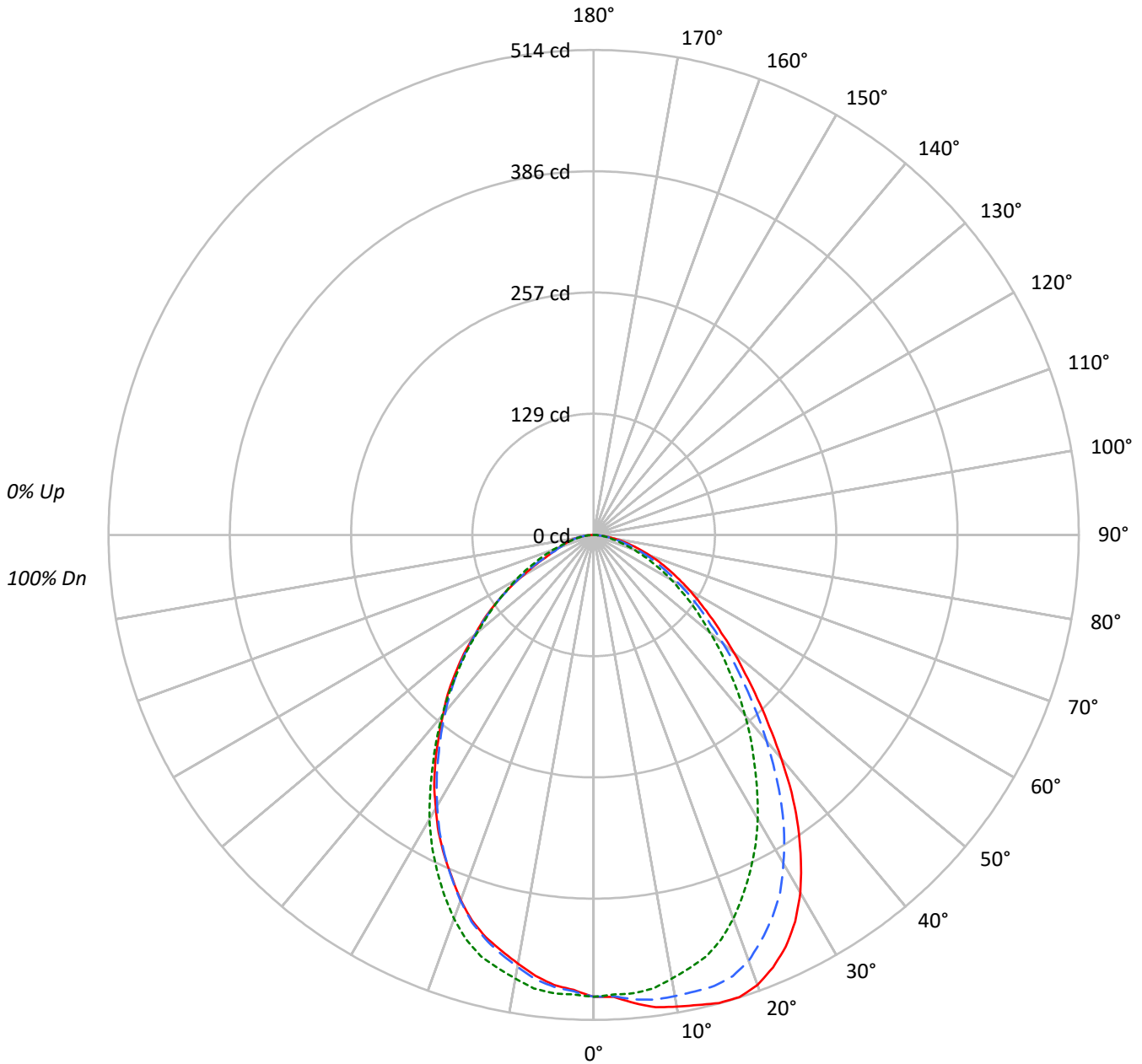
Lumens per Lamp: N/A
Luminaire Lumens: 958.7 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): 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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26834	26834	26834
5°	27416	26832	26348
10°	28256	26580	25684
15°	29149	26226	25051
20°	29613	25243	24030
25°	29131	23747	22653
30°	27732	22016	21168
35°	25290	19869	19562
40°	22106	17855	17755
45°	19025	15707	16071
50°	16537	13688	13970
55°	14442	12023	12138
60°	12828	10416	9528
65°	11454	8769	7277
70°	10066	7181	6107
75°	8642	5655	5804
80°	6977	4862	5714
85°	4655	4214	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	4.8
10°-20°	131.9	13.8
20°-30°	188.4	19.6
30°-40°	197.3	20.6
40°-50°	166.1	17.3
50°-60°	118.2	12.3
60°-70°	69.2	7.2
70°-80°	32.8	3.4
80°-90°	8.4	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°	366.7	38.2
0°-40°	564.0	58.8
0°-60°	848.3	88.5
0°-90°	958.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	490	490	490	490	490	
5°	498	494	488	481	479	48
15°	514	495	462	443	441	145
25°	482	447	393	374	374	220
35°	378	346	297	287	292	235
45°	245	227	203	203	207	191
55°	151	138	126	126	127	136
65°	88	78	68	57	56	88
75°	41	34	27	26	27	44
85°	7	6	7	8	8	10
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°	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
2.5°	490.2	490.2	489.5	488.9	487.6	485.5	484.2	482.8	482.8
5°	498.2	496.8	494.2	490.8	487.6	483.5	480.9	478.8	478.8
7.5°	504.9	502.3	496.8	490.8	484.8	479.5	474.9	472.2	471.5
10°	507.6	504.2	496.3	486.9	477.5	470.1	464.8	461.4	461.4
12.5°	510.3	506.2	495.6	482.1	470.1	460.2	454.7	452.1	451.4
15°	513.6	508.3	494.9	478.2	462.1	450.8	443.4	441.4	441.4
17.5°	513.6	506.9	490.2	469.4	449.4	436.7	430.0	428.0	428.7
20°	507.6	500.2	480.2	454.7	432.7	419.3	412.6	411.3	411.9
22.5°	496.3	487.6	464.8	437.4	413.3	399.3	393.3	393.3	392.6
25°	481.6	472.2	447.4	418.6	392.6	378.5	373.8	374.5	374.5
27.5°	462.1	452.8	428.0	397.2	371.2	357.1	353.7	355.1	355.8
30°	438.1	428.0	402.0	371.9	347.8	333.7	331.7	333.7	334.4
32.5°	408.7	401.3	375.8	345.0	322.4	310.3	309.6	311.6	314.4
35°	377.9	369.8	346.4	318.3	296.9	286.8	286.8	290.2	292.3
37.5°	344.4	336.4	315.0	291.6	273.5	264.2	265.5	268.8	269.5
40°	308.9	302.9	284.9	264.8	249.5	242.1	244.1	247.5	248.1
42.5°	275.5	270.2	255.5	237.4	226.1	220.7	223.3	227.4	228.7
45°	245.4	239.4	227.4	212.0	202.6	199.9	203.3	206.0	207.3
47.5°	218.0	212.7	202.6	188.6	181.9	180.6	184.0	185.2	186.6
50°	193.9	188.6	178.5	165.8	160.5	160.5	163.1	164.5	163.8
52.5°	170.5	165.8	156.4	145.8	142.4	142.4	144.4	145.1	146.5
55°	151.1	146.5	138.4	128.4	125.8	124.4	125.8	125.8	127.0
57.5°	133.1	129.0	121.7	112.4	109.0	107.7	107.0	106.3	107.7
60°	117.0	113.7	105.6	97.7	95.0	91.6	89.0	86.3	86.9
62.5°	102.3	98.9	91.6	83.5	80.9	76.2	72.9	69.5	70.9
65°	88.3	84.9	78.2	71.5	67.6	62.1	56.8	54.8	56.1
67.5°	75.6	72.9	66.2	59.5	56.1	50.1	44.8	44.8	45.5
70°	62.8	60.2	54.8	48.8	44.8	39.5	37.5	38.1	38.1
72.5°	51.5	49.5	44.1	38.8	34.8	31.5	31.5	32.1	32.7
75°	40.8	39.5	34.1	29.4	26.7	24.8	26.0	26.7	27.4
77.5°	31.5	29.4	25.4	22.1	20.0	20.7	22.1	22.8	23.4
80°	22.1	21.4	18.1	16.1	15.4	16.1	17.4	18.1	18.1
82.5°	14.0	13.4	11.3	10.8	10.8	11.3	12.7	12.7	12.7
85°	7.4	6.7	6.0	6.0	6.7	7.4	8.0	8.0	8.0
87.5°	2.7	2.0	2.7	2.7	3.4	3.4	3.4	3.4	3.4
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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