

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: P581492

Luminaire Tested: **HCC4S07D010MB-HM40525927-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S07D010MB-HM40525927-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

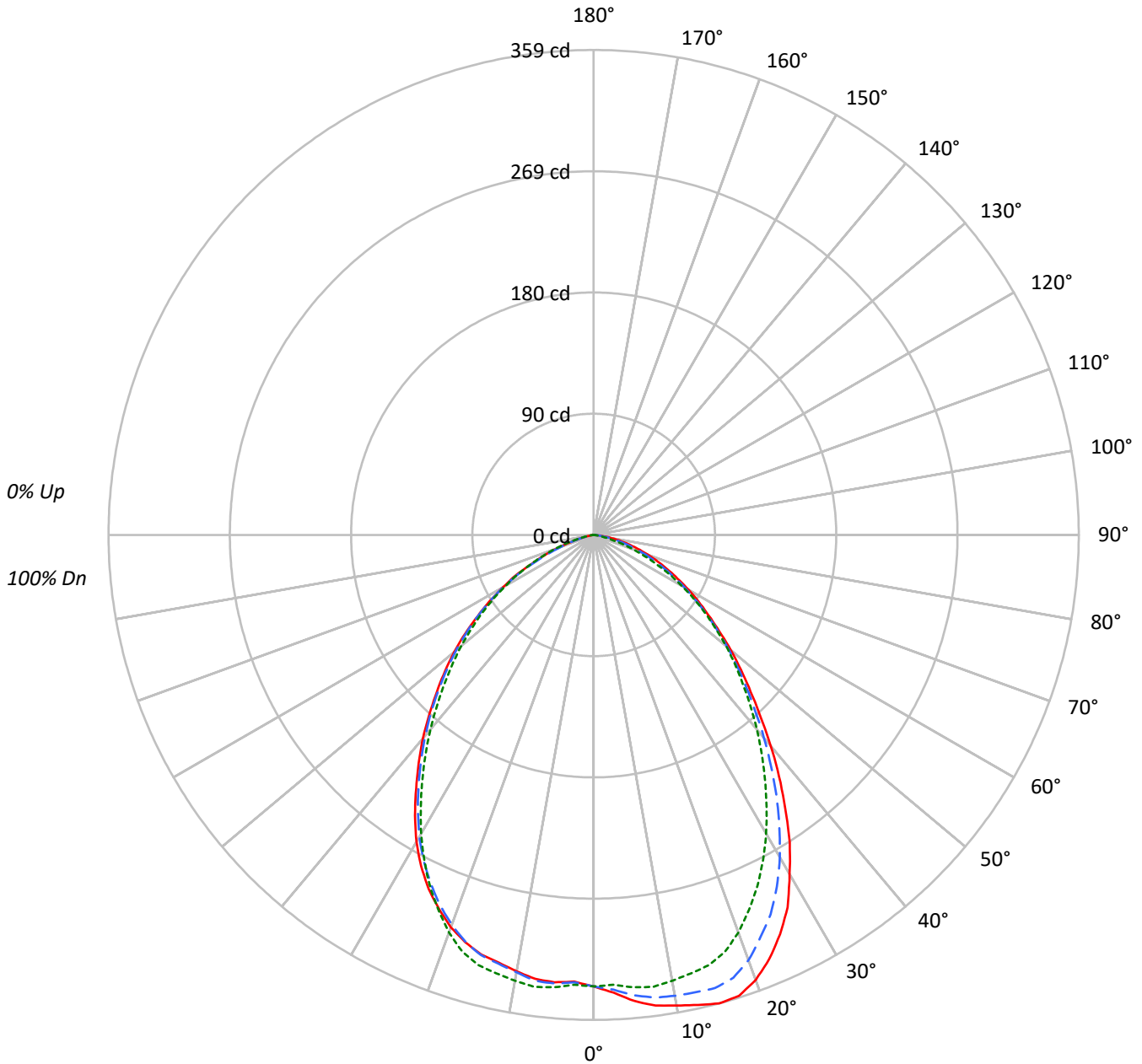
Lumens per Lamp: N/A  
Luminaire Lumens: 696.5 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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	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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

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

	0°	90°	180°
0°	41222	41222	41222
5°	42890	41615	41157
10°	44300	41971	41081
15°	45843	42102	41067
20°	46007	41098	40560
25°	44395	39033	39346
30°	41304	36362	37373
35°	37208	33263	34482
40°	32799	30255	31640
45°	28677	27247	28608
50°	25387	24524	25829
55°	22343	21655	22537
60°	19933	18502	19069
65°	17541	15002	14768
70°	15291	11072	10098
75°	12677	6672	5385
80°	9589	2557	1634
85°	4529	708	708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.2	4.6
10°-20°	94.1	13.5
20°-30°	136.3	19.6
30°-40°	143.8	20.6
40°-50°	124.4	17.9
50°-60°	92.2	13.2
60°-70°	53.1	7.6
70°-80°	18.6	2.7
80°-90°	2.0	0.3
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°	262.6	37.7
0°-40°	406.3	58.3
0°-60°	622.9	89.4
0°-90°	696.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	334	334	334	334	334	
5°	346	342	336	333	332	33
15°	359	347	330	322	322	101
25°	326	310	287	285	289	149
35°	247	236	221	226	229	154
45°	164	160	156	162	164	128
55°	104	102	101	104	105	94
65°	60	56	51	49	51	60
75°	27	22	14	11	11	29
85°	3	2	0	0	0	5
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°	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2
2.5°	339.2	338.3	337.0	335.1	333.3	332.0	331.5	331.0	331.0
5°	346.4	344.6	342.0	338.3	336.1	334.7	333.3	332.4	332.4
7.5°	351.4	349.6	345.5	340.6	337.4	334.7	332.9	331.5	331.5
10°	353.7	351.4	346.4	340.1	335.1	331.5	328.8	328.0	328.0
12.5°	356.4	353.7	346.9	338.8	332.4	328.0	325.2	324.3	324.3
15°	359.0	356.0	347.3	337.9	329.7	324.3	322.1	321.6	321.6
17.5°	357.7	353.7	343.7	332.4	323.4	318.0	315.7	315.7	316.1
20°	350.5	346.4	335.1	322.5	313.1	309.0	307.1	308.1	309.0
22.5°	339.7	334.7	322.5	310.3	300.3	296.8	296.8	298.2	299.4
25°	326.2	321.6	309.9	296.3	286.8	284.2	285.0	287.2	289.1
27.5°	310.8	305.8	293.6	281.0	271.4	270.0	272.3	275.5	276.4
30°	290.0	285.9	275.5	263.3	255.3	254.8	257.9	260.1	262.4
32.5°	270.0	265.6	255.6	243.9	238.1	238.5	242.1	244.8	246.1
35°	247.1	243.0	235.8	226.2	220.9	221.8	225.9	228.5	229.0
37.5°	225.4	222.7	215.4	208.3	204.2	206.0	209.6	212.7	212.7
40°	203.7	201.4	196.1	190.2	187.9	190.2	193.8	196.5	196.5
42.5°	182.9	181.6	177.1	173.0	171.6	174.8	178.0	180.3	179.8
45°	164.4	163.1	159.9	156.7	156.2	159.4	162.2	163.5	164.0
47.5°	147.7	146.8	144.1	141.8	141.8	145.0	147.3	148.6	149.1
50°	132.3	131.4	129.2	127.3	127.8	131.0	132.8	134.2	134.6
52.5°	117.0	116.5	114.7	112.4	113.8	116.1	118.4	119.3	119.7
55°	103.9	103.9	101.6	99.8	100.7	103.0	104.4	104.8	104.8
57.5°	92.2	91.7	89.0	87.2	87.6	89.9	90.8	91.3	91.3
60°	80.8	80.3	77.7	75.0	75.0	76.4	76.8	77.3	77.3
62.5°	70.0	69.5	66.3	64.2	63.3	62.8	62.8	63.7	65.5
65°	60.1	59.6	56.4	52.8	51.4	50.2	48.8	49.7	50.6
67.5°	51.1	50.2	47.0	43.8	40.6	38.4	36.2	37.4	39.3
70°	42.4	41.5	37.9	34.4	30.7	27.1	25.3	27.1	28.0
72.5°	34.4	33.5	29.8	26.2	21.7	18.1	17.6	18.1	18.5
75°	26.6	26.2	22.5	18.5	14.0	11.3	11.3	11.3	11.3
77.5°	19.9	19.0	15.4	11.7	8.1	6.4	5.9	5.9	5.9
80°	13.5	12.6	9.4	6.8	3.6	2.7	2.7	2.3	2.3
82.5°	7.6	7.3	5.0	2.7	1.4	0.9	0.9	0.9	0.9
85°	3.2	2.7	1.8	0.9	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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