

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: P581460

Luminaire Tested: **HCC4W07D010MB-HM40525835-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W07D010MB-HM40525835-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

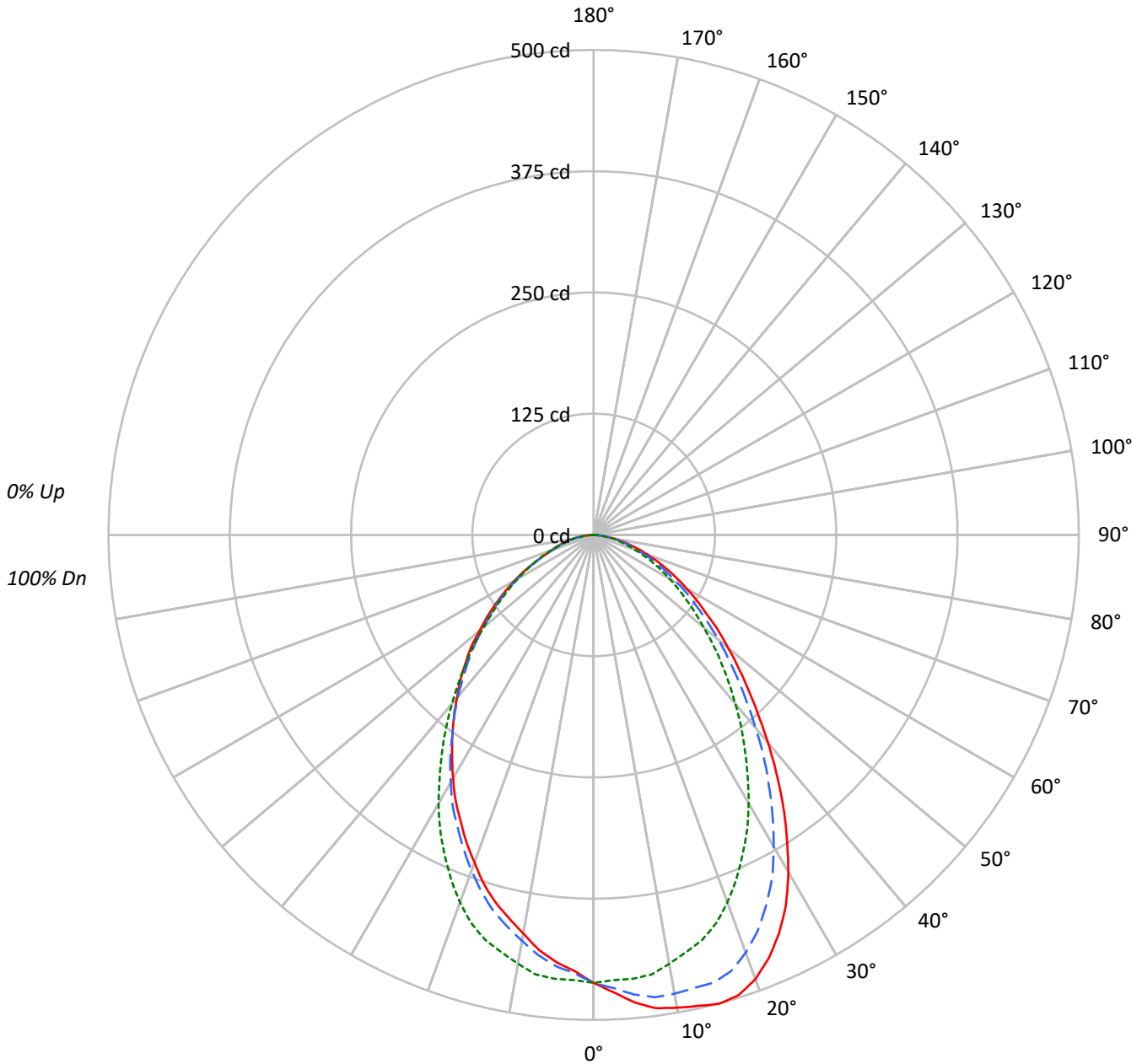
Lumens per Lamp: N/A  
Luminaire Lumens: 895.6 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75					75			
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58					58			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51					51			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46					46			
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41					41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	61	49	41	36	60	48	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°	56961	56961	56961
5°	59903	56881	54752
10°	61998	56211	52266
15°	63899	55191	50032
20°	63964	52912	47162
25°	61570	49458	44218
30°	57170	45520	41275
35°	51241	40972	38216
40°	44972	36551	35311
45°	39301	32376	32567
50°	34694	28323	29340
55°	30580	25117	26386
60°	27333	22227	23115
65°	24224	19555	19555
70°	21169	16661	16661
75°	18062	14106	15822
80°	14277	12644	14277
85°	9199	10897	13303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	4.9
10°-20°	123.2	13.8
20°-30°	172.6	19.3
30°-40°	177.8	19.9
40°-50°	151.4	16.9
50°-60°	112.2	12.5
60°-70°	70.4	7.9
70°-80°	35.0	3.9
80°-90°	9.2	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°	339.6	37.9
0°-40°	517.4	57.8
0°-60°	781.0	87.2
0°-90°	895.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	462	462	462	462	462	
5°	484	476	459	446	442	47
15°	500	478	432	401	392	141
25°	452	421	363	332	325	207
35°	340	315	272	254	254	212
45°	225	210	186	182	187	175
55°	142	131	117	119	123	129
65°	83	75	67	66	67	83
75°	38	34	30	32	33	40
85°	6	6	8	9	9	8
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°	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8
2.5°	471.9	470.1	467.7	463.6	459.4	455.9	452.4	450.5	450.0
5°	483.8	480.2	475.5	467.7	459.4	452.4	446.4	443.5	442.2
7.5°	492.1	488.5	480.8	469.0	457.0	446.4	436.9	432.8	431.5
10°	495.0	490.8	480.2	464.2	448.8	435.7	425.0	419.7	417.3
12.5°	497.4	492.1	478.4	459.4	440.5	424.5	413.2	406.0	404.3
15°	500.4	494.5	477.8	454.7	432.2	413.2	400.8	394.2	391.8
17.5°	497.4	490.8	471.4	445.2	419.7	399.0	385.3	379.4	377.0
20°	487.3	480.2	458.3	430.4	403.1	381.8	368.1	362.2	359.3
22.5°	471.9	464.2	441.7	412.1	384.2	363.4	350.4	344.5	342.7
25°	452.4	444.6	420.9	390.7	363.4	343.2	332.0	326.6	324.9
27.5°	429.3	421.5	398.4	368.7	342.7	323.6	314.8	309.4	308.3
30°	401.4	393.6	371.1	343.8	319.6	301.8	294.6	290.5	289.8
32.5°	370.5	364.0	343.2	318.3	295.2	280.4	275.1	272.1	271.5
35°	340.3	333.2	314.8	292.2	272.1	259.1	254.3	253.8	253.8
37.5°	309.4	302.4	287.6	266.7	249.6	237.7	235.9	236.6	236.6
40°	279.3	272.7	259.7	242.5	227.0	218.2	217.6	218.7	219.3
42.5°	250.8	245.5	233.6	218.7	205.8	198.6	199.1	201.5	203.4
45°	225.3	220.5	209.8	196.9	185.6	180.3	182.0	184.9	186.7
47.5°	202.1	198.0	187.9	176.0	166.6	163.1	165.4	169.0	171.4
50°	180.8	177.3	167.7	155.3	147.6	145.2	148.2	151.8	152.9
52.5°	161.8	158.3	148.2	137.6	131.6	130.4	133.4	136.3	138.2
55°	142.2	139.3	131.0	121.5	116.8	116.2	119.1	121.5	122.7
57.5°	126.3	123.4	115.6	107.3	103.1	102.5	105.5	107.3	107.9
60°	110.8	107.9	100.8	93.1	90.1	90.1	91.8	93.1	93.7
62.5°	96.6	93.7	87.2	80.6	78.3	78.3	78.3	78.9	80.6
65°	83.0	80.6	74.7	68.7	67.0	65.8	65.8	65.8	67.0
67.5°	70.6	68.2	63.4	58.2	56.3	54.5	53.9	55.1	55.1
70°	58.7	56.9	52.1	48.0	46.2	44.5	43.8	46.2	46.2
72.5°	48.0	46.2	43.2	39.1	37.3	36.8	37.9	39.1	39.7
75°	37.9	36.2	33.8	31.4	29.6	30.3	32.0	32.7	33.2
77.5°	28.4	27.9	25.5	23.7	23.7	24.4	25.5	26.6	27.3
80°	20.1	19.6	18.3	17.2	17.8	19.0	19.6	20.7	20.1
82.5°	12.4	12.4	11.8	11.8	12.4	13.7	14.2	14.8	15.4
85°	6.5	6.5	6.5	7.2	7.7	8.3	8.9	9.4	9.4
87.5°	1.8	2.4	2.4	3.0	3.5	3.5	4.1	4.1	4.1
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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