

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: P579842

Luminaire Tested: **HCC4W15D010MW-HM40525827-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W15D010MW-HM40525827-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

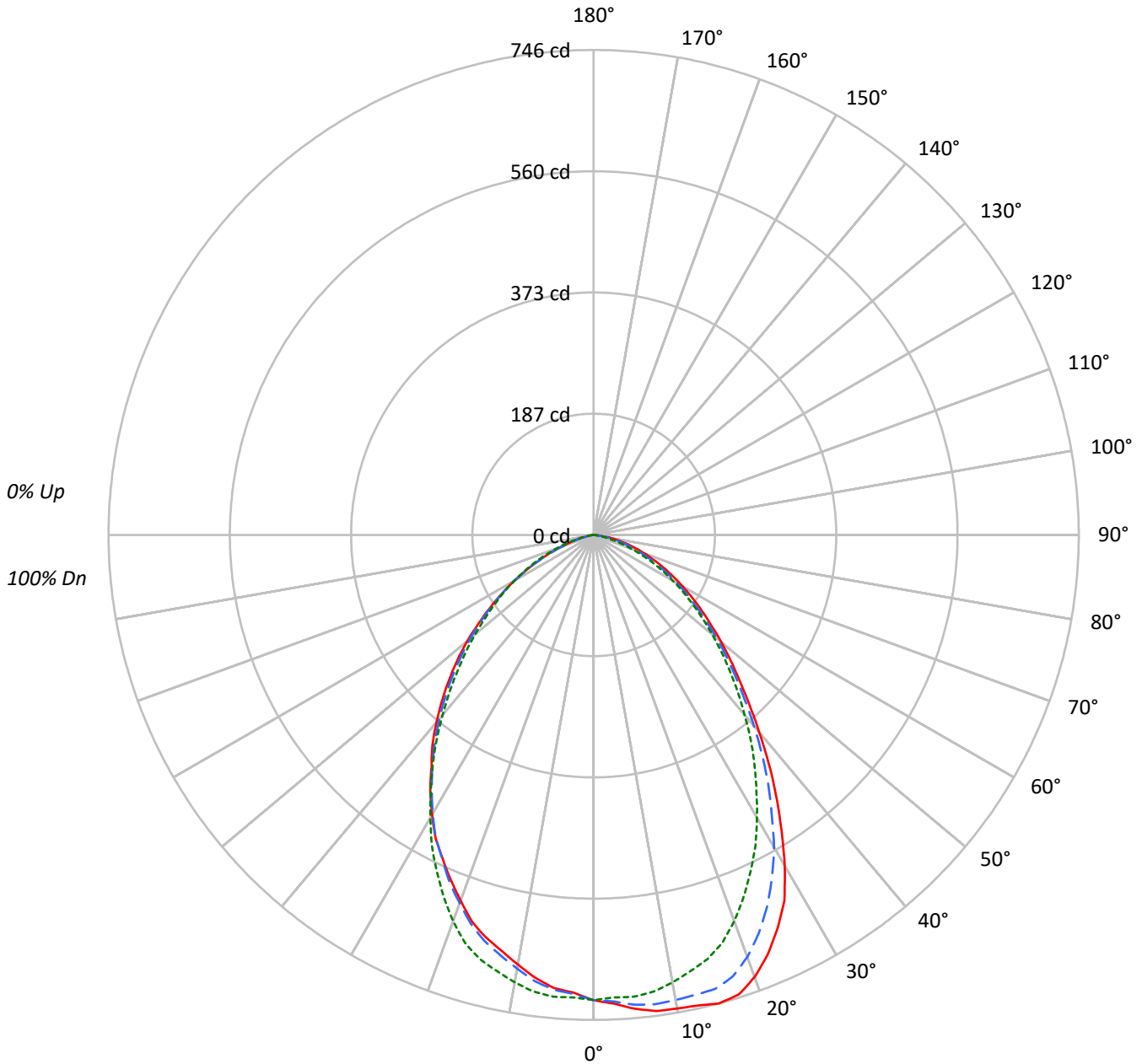
Lumens per Lamp: N/A  
Luminaire Lumens: 1364.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	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	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59		
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52		
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47		
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35		
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

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

	0°	90°	180°
0°	88266	88266	88266
5°	90597	88281	86622
10°	92634	87524	84067
15°	95249	86272	81841
20°	94994	82971	78534
25°	90994	77684	74772
30°	83690	71541	70786
35°	73617	64929	65456
40°	63698	58111	60542
45°	55349	51651	54738
50°	49143	45555	48606
55°	43590	39956	41698
60°	38829	34635	34635
65°	34498	28807	26968
70°	29825	21819	19222
75°	24972	14392	11867
80°	18966	6961	6322
85°	10190	2547	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	5.0
10°-20°	192.1	14.1
20°-30°	271.0	19.9
30°-40°	279.9	20.5
40°-50°	237.3	17.4
50°-60°	172.6	12.7
60°-70°	100.9	7.4
70°-80°	37.5	2.7
80°-90°	4.9	0.4
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°	530.9	38.9
0°-40°	810.8	59.4
0°-60°	1220.7	89.5
0°-90°	1364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	732	725	713	702	700	70
15°	746	723	676	647	641	210
25°	669	631	571	550	549	306
35°	489	468	431	432	435	305
45°	317	308	296	307	314	247
55°	203	193	186	192	194	182
65°	118	108	99	92	92	117
75°	52	44	30	24	25	56
85°	7	4	2	2	2	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°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
2.5°	721.9	720.1	718.4	715.6	712.1	709.4	706.8	704.9	704.9
5°	731.7	728.9	725.4	719.2	713.0	707.7	702.3	699.6	699.6
7.5°	738.7	735.2	728.1	719.2	708.6	700.5	692.5	689.0	687.2
10°	739.6	736.1	726.3	713.0	698.8	686.3	677.4	672.1	671.2
12.5°	741.4	737.0	724.5	705.8	687.2	672.1	662.3	657.0	655.1
15°	745.9	739.6	722.8	698.8	675.6	657.9	647.2	642.7	640.9
17.5°	741.4	732.6	712.1	683.7	657.9	638.3	627.6	623.2	623.2
20°	723.7	714.7	690.7	659.7	632.1	613.4	602.7	600.1	598.3
22.5°	698.8	689.0	663.2	630.4	602.7	585.9	578.7	575.2	574.3
25°	668.6	658.8	631.1	597.4	570.8	556.6	550.3	550.3	549.4
27.5°	634.8	622.3	593.9	564.5	538.7	528.0	525.4	525.4	526.3
30°	587.6	578.7	554.7	526.3	502.3	495.2	495.2	497.0	497.0
32.5°	537.0	530.8	509.4	484.5	465.8	461.4	463.2	466.7	467.6
35°	488.9	481.9	467.6	445.4	431.2	429.3	432.1	434.7	434.7
37.5°	441.8	434.7	424.9	407.2	396.5	397.4	400.9	404.5	407.2
40°	395.6	390.2	383.2	369.0	360.9	364.5	369.0	372.5	376.0
42.5°	354.7	349.4	344.1	333.4	328.0	332.5	337.8	341.3	345.0
45°	317.3	313.8	308.5	299.6	296.1	300.5	306.6	310.3	313.8
47.5°	285.4	283.6	276.5	268.4	266.7	271.2	276.5	281.0	283.6
50°	256.1	253.3	247.2	239.1	237.4	244.5	248.0	250.7	253.3
52.5°	227.6	224.9	217.8	210.7	210.7	216.0	218.6	219.6	222.3
55°	202.7	200.0	192.9	187.6	185.8	190.2	192.0	192.0	193.9
57.5°	179.5	176.9	169.8	163.6	162.7	165.3	165.3	165.3	166.2
60°	157.4	154.6	147.6	142.2	140.4	141.3	140.4	139.6	140.4
62.5°	136.9	134.3	127.1	120.9	119.2	119.2	116.4	115.5	116.4
65°	118.2	113.8	108.5	102.2	98.7	96.0	92.4	92.4	92.4
67.5°	99.6	96.0	89.8	83.6	79.1	74.7	69.4	71.2	72.0
70°	82.7	80.0	72.9	66.6	60.5	55.1	50.7	52.4	53.3
72.5°	67.5	64.0	57.8	50.7	45.4	38.2	35.6	37.3	37.3
75°	52.4	48.9	43.5	36.5	30.2	24.0	24.0	24.9	24.9
77.5°	39.1	35.6	30.2	24.0	18.6	14.2	15.1	15.1	15.1
80°	26.7	24.0	19.6	14.2	9.8	8.0	8.0	8.0	8.9
82.5°	15.1	13.3	10.7	7.2	4.4	4.4	4.4	4.4	4.4
85°	7.2	5.3	4.4	2.6	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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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