

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: P579896

Luminaire Tested: **HCC4S15D010MB-HM40525840-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579896  
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: HCC4S15D010MB-HM40525840-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

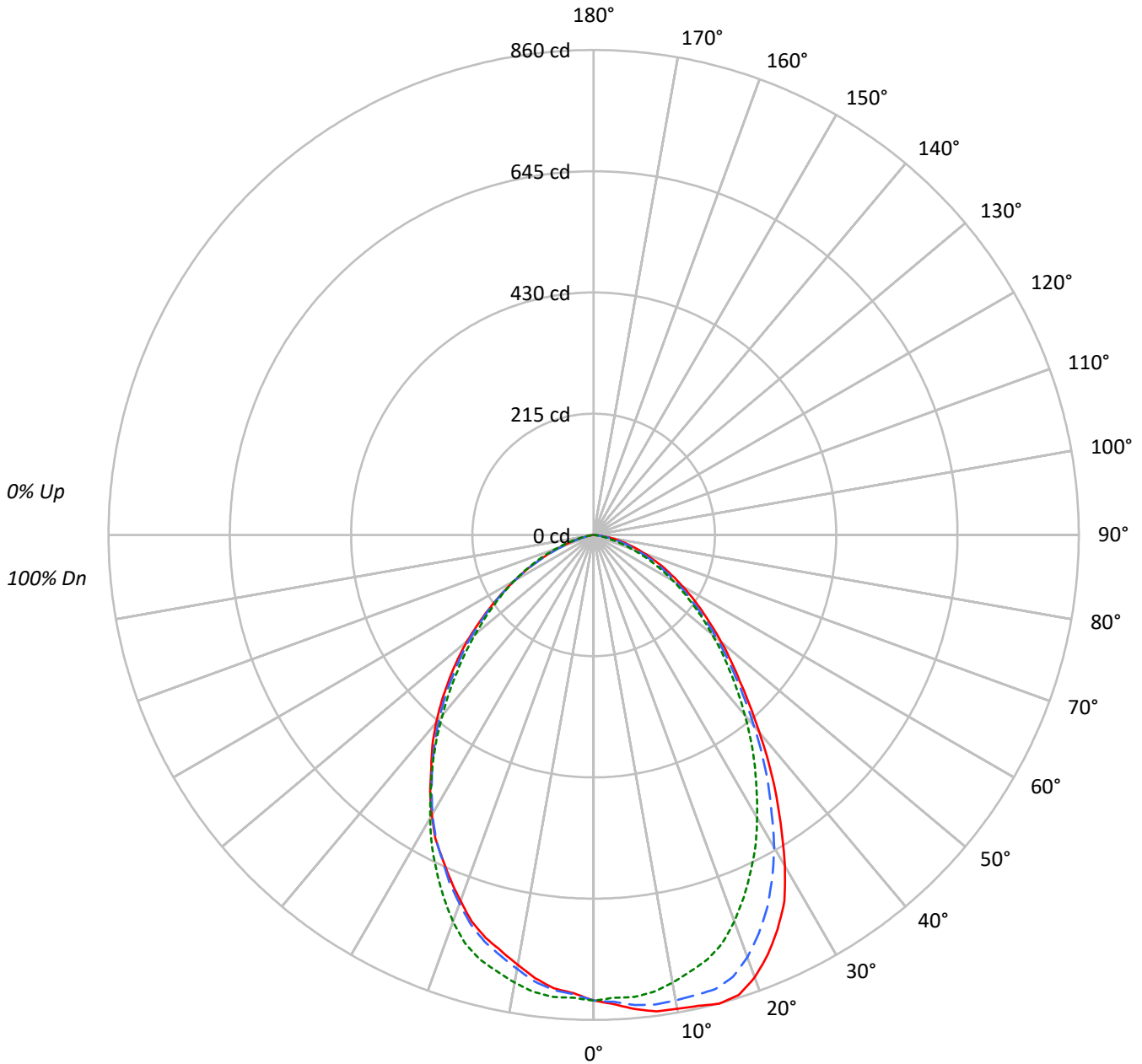
Lumens per Lamp: N/A  
Luminaire Lumens: 1573.6 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P579896  
CATALOG NUMBER: HCC4S15D010MB-HM40525840-41RWWH

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P579896

CATALOG NUMBER: HCC4S15D010MB-HM40525840-41RWWH

**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	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°	101846	101846	101846
5°	104514	101839	99945
10°	106874	100963	96980
15°	109883	99540	94432
20°	109590	95729	90610
25°	104958	89606	86272
30°	96566	82537	81654
35°	84941	74897	75514
40°	73488	67047	69865
45°	63861	59588	63146
50°	56685	52540	56090
55°	50299	46084	48063
60°	44799	39964	39964
65°	39810	33214	31142
70°	34405	25137	22179
75°	28833	16632	13725
80°	21878	8027	7245
85°	11605	2830	2830



TEST NUMBER: P579896  
 CATALOG NUMBER: HCC4S15D010MB-HM40525840-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.2	5.0
10°-20°	221.7	14.1
20°-30°	312.6	19.9
30°-40°	322.9	20.5
40°-50°	273.8	17.4
50°-60°	199.2	12.7
60°-70°	116.4	7.4
70°-80°	43.2	2.7
80°-90°	5.6	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°	612.5	38.9
0°-40°	935.4	59.4
0°-60°	1408.4	89.5
0°-90°	1573.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	826	826	826	826	826	
5°	844	837	822	810	807	81
15°	860	834	780	747	740	242
25°	771	728	658	635	634	353
35°	564	540	497	498	502	352
45°	366	356	342	354	362	285
55°	234	222	214	222	224	210
65°	136	125	114	107	107	135
75°	60	50	35	28	29	65
85°	8	5	2	2	2	11
90°	0	0	0	0	0	



TEST NUMBER: P579896

CATALOG NUMBER: HCC4S15D010MB-HM40525840-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7
2.5°	832.9	830.8	828.8	825.7	821.5	818.4	815.3	813.3	813.3
5°	844.1	841.0	836.9	829.8	822.5	816.4	810.2	807.2	807.2
7.5°	852.3	848.2	840.0	829.8	817.4	808.2	799.0	794.9	792.8
10°	853.3	849.2	838.0	822.5	806.1	791.8	781.6	775.4	774.3
12.5°	855.4	850.2	835.9	814.3	792.8	775.4	764.1	757.9	755.9
15°	860.5	853.3	833.9	806.1	779.5	758.9	746.7	741.6	739.5
17.5°	855.4	845.1	821.5	788.7	758.9	736.4	724.0	718.9	718.9
20°	834.9	824.7	796.9	761.0	729.3	707.7	695.4	692.3	690.3
22.5°	806.1	794.9	765.1	727.2	695.4	675.9	667.6	663.6	662.5
25°	771.2	760.0	728.2	689.2	658.4	642.1	634.9	634.9	633.9
27.5°	732.3	717.9	685.2	651.3	621.5	609.2	606.1	606.1	607.2
30°	678.0	667.6	640.0	607.2	579.5	571.2	571.2	573.3	573.3
32.5°	619.4	612.3	587.7	558.9	537.5	532.3	534.4	538.5	539.5
35°	564.1	555.9	539.5	513.8	497.4	495.4	498.5	501.5	501.5
37.5°	509.7	501.5	490.3	469.7	457.4	458.4	462.5	466.6	469.7
40°	456.4	450.3	442.1	425.7	416.4	420.5	425.7	429.8	433.9
42.5°	409.2	403.1	396.9	384.6	378.5	383.6	389.8	393.9	398.0
45°	366.1	362.0	355.9	345.6	341.6	346.7	353.8	357.9	362.0
47.5°	329.3	327.2	318.9	309.7	307.7	312.8	318.9	324.0	327.2
50°	295.4	292.3	285.2	275.9	273.8	282.1	286.2	289.3	292.3
52.5°	262.5	259.5	251.3	243.1	243.1	249.2	252.3	253.3	256.4
55°	233.9	230.8	222.5	216.4	214.3	219.4	221.5	221.5	223.5
57.5°	207.2	204.1	195.9	188.7	187.7	190.8	190.8	190.8	191.8
60°	181.6	178.5	170.2	164.1	162.0	163.0	162.0	161.0	162.0
62.5°	157.9	154.9	146.7	139.5	137.5	137.5	134.4	133.4	134.4
65°	136.4	131.3	125.2	117.9	113.8	110.7	106.7	106.7	106.7
67.5°	114.8	110.7	103.6	96.4	91.3	86.2	80.0	82.1	83.1
70°	95.4	92.3	84.1	77.0	69.7	63.6	58.4	60.5	61.5
72.5°	78.0	73.8	66.6	58.4	52.3	44.1	41.0	43.1	43.1
75°	60.5	56.4	50.3	42.1	34.9	27.7	27.7	28.8	28.8
77.5°	45.1	41.0	34.9	27.7	21.5	16.4	17.4	17.4	17.4
80°	30.8	27.7	22.5	16.4	11.3	9.2	9.2	9.2	10.2
82.5°	17.4	15.3	12.3	8.2	5.1	5.1	5.1	5.1	5.1
85°	8.2	6.1	5.1	3.1	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)