

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: P579860

Luminaire Tested: **HCC4S15D010MB-HM40525830-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579860
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-HM40525830-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

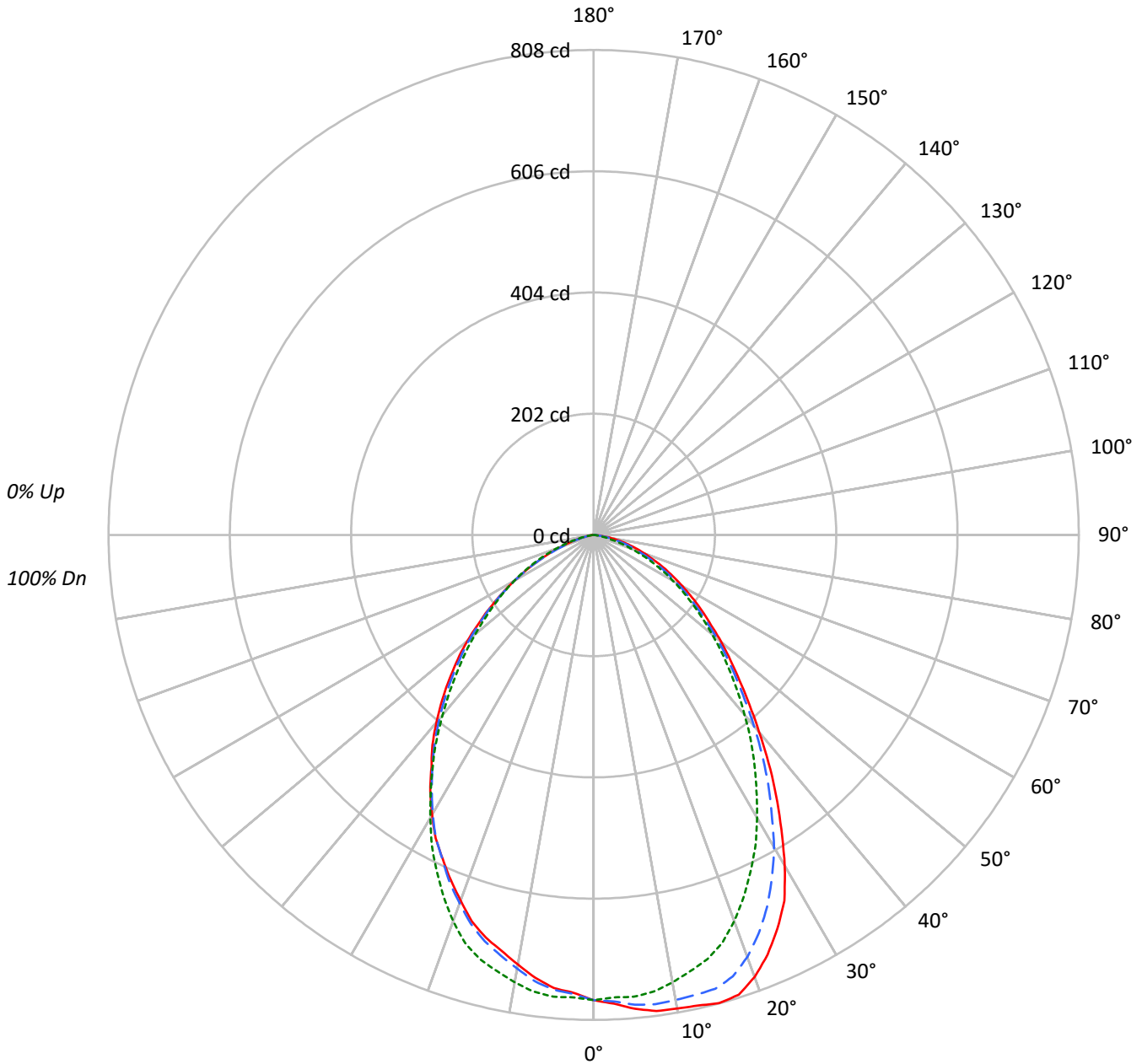
Lumens per Lamp: N/A
Luminaire Lumens: 1477.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{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



TEST NUMBER: P579860
CATALOG NUMBER: HCC4S15D010MB-HM40525830-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P579860

CATALOG NUMBER: HCC4S15D010MB-HM40525830-41RWWH

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°	95605	95605	95605
5°	98125	95624	93828
10°	100337	94788	91056
15°	103153	93449	88660
20°	102870	89862	85058
25°	98534	84135	80991
30°	90655	77495	76669
35°	79746	70320	70892
40°	68995	62941	65582
45°	59954	55925	59274
50°	53212	49335	52674
55°	47224	43267	45138
60°	42036	37522	37522
65°	37358	31200	29244
70°	32313	23622	20845
75°	27069	15584	12820
80°	20528	7529	6890
85°	10897	2689	2689



TEST NUMBER: P579860
 CATALOG NUMBER: HCC4S15D010MB-HM40525830-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	5.0
10°-20°	208.1	14.1
20°-30°	293.5	19.9
30°-40°	303.2	20.5
40°-50°	257.0	17.4
50°-60°	187.0	12.7
60°-70°	109.3	7.4
70°-80°	40.6	2.7
80°-90°	5.3	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°	575.0	38.9
0°-40°	878.2	59.4
0°-60°	1322.2	89.5
0°-90°	1477.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	775	775	775	775	775	
5°	792	786	772	761	758	76
15°	808	783	732	701	694	227
25°	724	684	618	596	595	331
35°	530	506	467	468	471	331
45°	344	334	321	332	340	267
55°	220	209	201	208	210	197
65°	128	118	107	100	100	127
75°	57	47	33	26	27	61
85°	8	5	2	2	2	11
90°	0	0	0	0	0	

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



TEST NUMBER: P579860

CATALOG NUMBER: HCC4S15D010MB-HM40525830-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1
2.5°	781.9	780.0	778.0	775.1	771.2	768.4	765.5	763.6	763.6
5°	792.5	789.5	785.7	779.0	772.3	766.5	760.7	757.8	757.8
7.5°	800.1	796.4	788.6	779.0	767.5	758.7	750.1	746.2	744.3
10°	801.1	797.3	786.7	772.3	756.8	743.4	733.7	727.9	727.0
12.5°	803.1	798.3	784.8	764.5	744.3	727.9	717.3	711.5	709.6
15°	807.8	801.1	782.8	756.8	731.8	712.6	701.0	696.2	694.3
17.5°	803.1	793.4	771.2	740.4	712.6	691.4	679.8	675.0	675.0
20°	783.7	774.2	748.1	714.5	684.6	664.3	652.9	649.9	648.0
22.5°	756.8	746.2	718.4	682.7	652.9	634.6	626.8	623.0	622.1
25°	724.0	713.5	683.7	647.1	618.2	602.7	596.0	596.0	595.1
27.5°	687.5	674.0	643.2	611.5	583.5	571.9	569.1	569.1	570.0
30°	636.5	626.8	600.8	570.0	544.1	536.3	536.3	538.3	538.3
32.5°	581.6	574.9	551.8	524.7	504.6	499.7	501.6	505.5	506.5
35°	529.6	521.9	506.5	482.4	467.0	465.0	468.0	470.8	470.8
37.5°	478.6	470.8	460.3	441.0	429.4	430.4	434.2	438.1	441.0
40°	428.5	422.7	415.0	399.5	390.9	394.8	399.5	403.4	407.3
42.5°	384.2	378.4	372.6	361.1	355.3	360.1	365.9	369.8	373.6
45°	343.7	339.8	334.2	324.5	320.6	325.4	332.2	336.1	339.8
47.5°	309.0	307.2	299.5	290.8	288.9	293.7	299.5	304.3	307.2
50°	277.3	274.5	267.6	259.0	257.1	264.8	268.7	271.5	274.5
52.5°	246.5	243.7	235.9	228.2	228.2	234.0	236.8	237.9	240.7
55°	219.6	216.6	209.0	203.2	201.2	206.0	208.0	208.0	209.9
57.5°	194.5	191.6	184.0	177.1	176.2	179.1	179.1	179.1	180.1
60°	170.4	167.6	159.9	154.1	152.1	153.2	152.1	151.2	152.1
62.5°	148.3	145.4	137.7	131.0	129.0	129.0	126.1	125.2	126.1
65°	128.0	123.3	117.5	110.7	106.9	104.0	100.2	100.2	100.2
67.5°	107.8	104.0	97.2	90.5	85.7	80.8	75.2	77.0	78.0
70°	89.6	86.6	78.9	72.2	65.5	59.7	54.9	56.8	57.8
72.5°	73.2	69.4	62.5	54.9	49.1	41.4	38.5	40.5	40.5
75°	56.8	53.0	47.2	39.5	32.7	26.0	26.0	26.9	26.9
77.5°	42.4	38.5	32.7	26.0	20.2	15.3	16.4	16.4	16.4
80°	28.9	26.0	21.1	15.3	10.6	8.6	8.6	8.6	9.7
82.5°	16.4	14.4	11.6	7.7	4.8	4.8	4.8	4.8	4.8
85°	7.7	5.8	4.8	2.8	1.9	1.9	1.9	1.9	1.9
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

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)