

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: P579897

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S15D010MB-HM40525840-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

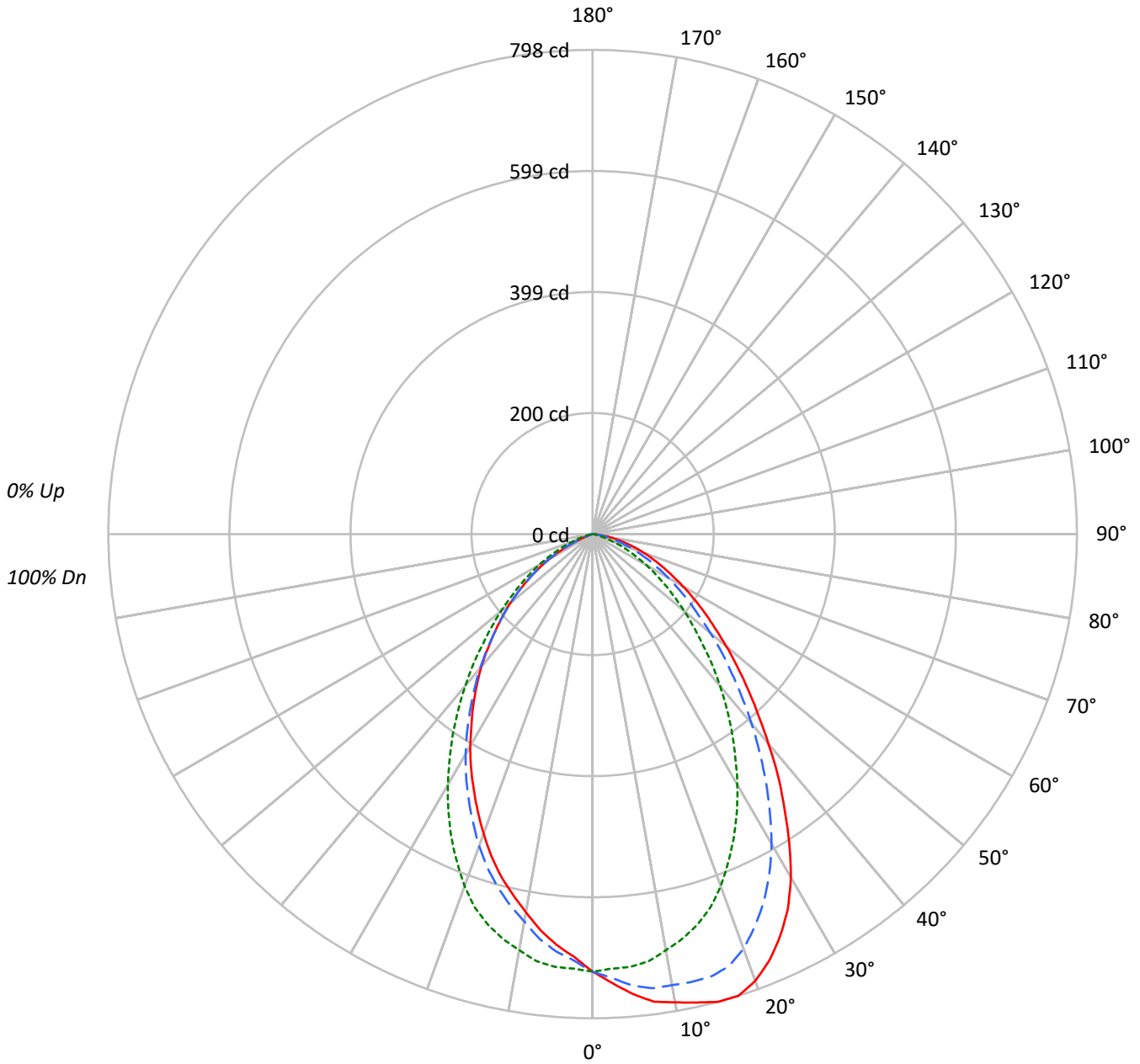
Lumens per Lamp: N/A
Luminaire Lumens: 1245.4 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579897
CATALOG NUMBER: HCC4S15D010MB-HM40525840-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P579897

CATALOG NUMBER: HCC4S15D010MB-HM40525840-41WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	88932	88932	88932
5°	94225	88640	84183
10°	98145	87223	79270
15°	101889	85123	74524
20°	102857	81041	68926
25°	99514	74962	63094
30°	93048	67924	57412
35°	82938	60381	51588
40°	72506	52507	45922
45°	63146	44551	39719
50°	55111	37783	34061
55°	48299	31311	27590
60°	42234	25311	20253
65°	36833	18854	11383
70°	32205	12226	3679
75°	26402	6338	953
80°	19676	2912	710
85°	11605	1415	1415



TEST NUMBER: P579897
 CATALOG NUMBER: HCC4S15D010MB-HM40525840-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	5.5
10°-20°	190.4	15.3
20°-30°	263.3	21.1
30°-40°	264.8	21.3
40°-50°	213.7	17.2
50°-60°	144.5	11.6
60°-70°	73.5	5.9
70°-80°	23.5	1.9
80°-90°	3.6	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°	521.8	41.9
0°-40°	786.6	63.2
0°-60°	1144.7	91.9
0°-90°	1245.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	721	721	721	721	721	
5°	761	747	716	690	680	73
15°	798	755	667	603	584	225
25°	731	668	551	483	464	335
35°	551	497	401	351	343	344
45°	362	324	255	228	228	281
55°	225	194	146	127	128	202
65°	126	103	65	42	39	127
75°	55	39	13	3	2	60
85°	8	4	1	1	1	11
90°	0	0	0	0	0	

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



TEST NUMBER: P579897

CATALOG NUMBER: HCC4S15D010MB-HM40525840-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
2.5°	740.5	736.4	732.3	725.1	716.9	708.7	703.6	699.5	697.4
5°	761.0	755.9	746.7	731.2	715.9	701.5	690.3	683.1	679.9
7.5°	777.4	770.2	754.9	733.4	709.7	687.2	672.8	662.5	658.4
10°	783.6	775.3	754.9	726.1	696.4	668.7	648.2	638.0	632.9
12.5°	790.8	781.5	755.9	719.9	683.1	650.3	626.6	613.3	608.2
15°	797.9	785.7	754.9	710.7	666.6	628.6	603.1	589.8	583.6
17.5°	797.9	783.6	746.7	695.4	645.1	605.1	576.3	561.0	555.9
20°	783.6	767.1	727.1	670.7	617.4	574.3	546.7	531.3	525.1
22.5°	761.0	742.6	699.5	641.0	584.6	542.6	514.8	500.5	494.4
25°	731.2	712.8	667.6	607.2	550.8	508.7	483.1	469.7	463.6
27.5°	696.4	675.8	630.8	570.2	514.8	474.8	451.3	439.0	433.9
30°	653.3	633.9	589.8	530.3	476.9	440.0	418.4	407.2	403.1
32.5°	603.1	586.7	543.6	488.2	438.0	404.1	384.6	375.3	371.2
35°	550.8	535.4	497.4	446.2	401.0	369.2	350.8	344.6	342.6
37.5°	501.5	488.2	451.3	404.1	363.0	335.4	318.9	314.8	312.8
40°	450.3	441.0	407.2	364.1	326.1	301.5	288.2	285.2	285.2
42.5°	404.1	393.9	364.1	325.1	291.3	266.6	257.4	254.3	255.4
45°	362.0	351.8	324.0	288.2	255.4	234.9	227.7	227.7	227.7
47.5°	323.0	313.8	288.2	251.3	224.6	208.2	201.0	201.0	202.0
50°	287.2	281.1	252.3	220.5	196.9	181.6	176.3	175.3	177.5
52.5°	253.3	246.2	220.5	191.8	169.2	156.9	151.8	150.8	151.8
55°	224.6	216.4	193.9	166.1	145.6	133.4	127.2	126.2	128.3
57.5°	196.9	190.8	167.1	142.6	123.0	110.7	105.6	103.6	104.6
60°	171.2	165.1	143.6	120.0	102.6	90.3	83.1	81.1	82.1
62.5°	147.7	142.6	122.0	99.5	82.1	70.7	63.6	58.4	60.5
65°	126.2	121.0	102.6	80.0	64.6	52.3	42.1	38.0	39.0
67.5°	107.7	101.5	84.1	63.6	48.2	34.9	23.5	21.5	21.5
70°	89.3	83.1	67.7	49.2	33.9	18.4	10.2	10.2	10.2
72.5°	71.7	66.6	52.3	37.0	21.5	8.2	4.1	4.1	4.1
75°	55.4	51.3	39.0	25.7	13.3	4.1	3.1	2.0	2.0
77.5°	41.0	37.0	27.7	17.4	8.2	2.0	2.0	2.0	2.0
80°	27.7	24.6	18.4	10.2	4.1	1.0	1.0	1.0	1.0
82.5°	16.4	14.3	10.2	5.1	2.0	1.0	1.0	1.0	1.0
85°	8.2	6.1	4.1	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	2.0	1.0	1.0	1.0	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

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)