

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: P579949

Luminaire Tested: **HCC4S15D010BZ-HM40525935-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S15D010BZ-HM40525935-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

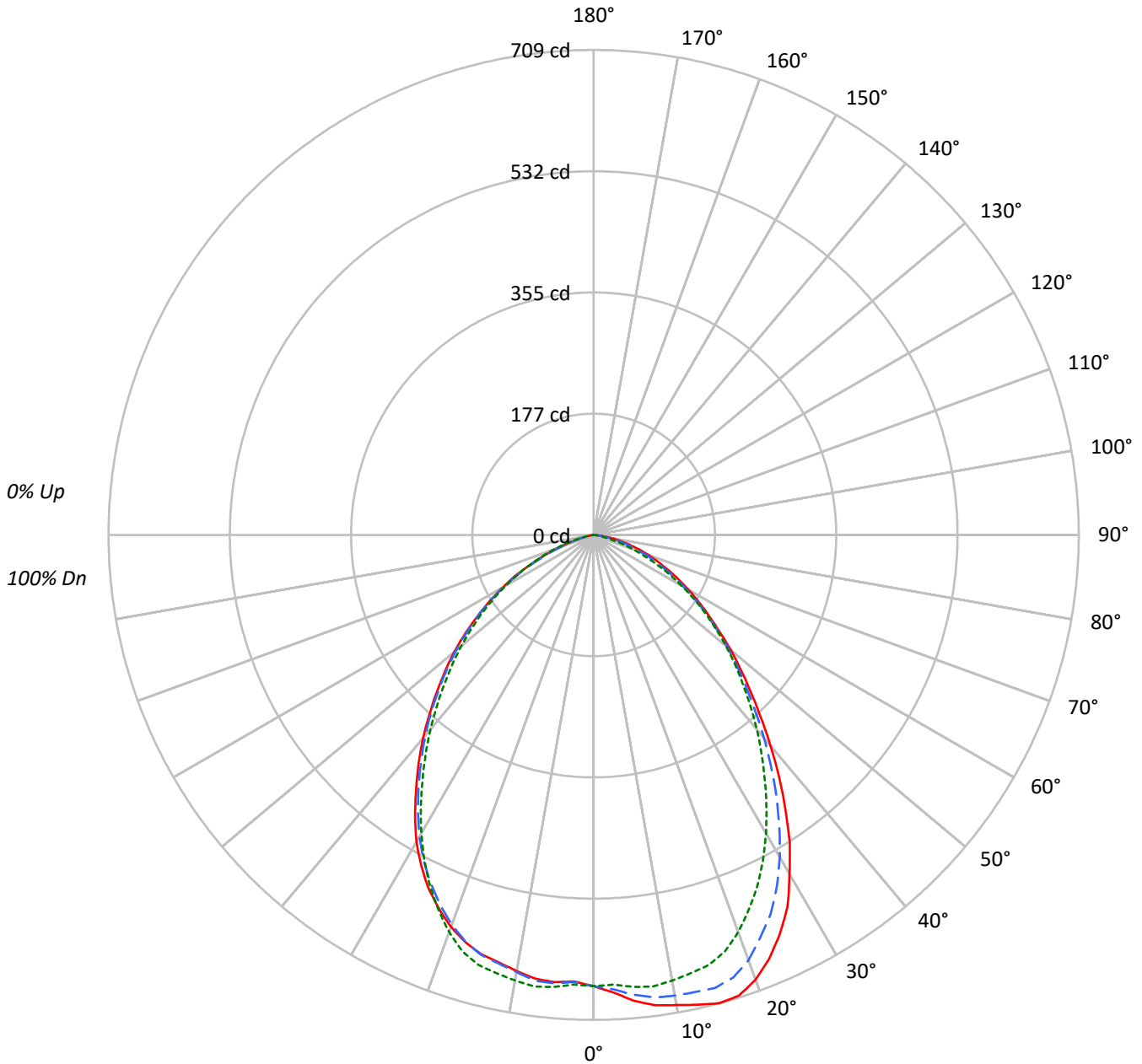
Lumens per Lamp: N/A
Luminaire Lumens: 1374.8 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579949
CATALOG NUMBER: HCC4S15D010BZ-HM40525935-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P579949

CATALOG NUMBER: HCC4S15D010BZ-HM40525935-41RWWC

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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	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°	81371	81371	81371
5°	84666	82128	81249
10°	87423	82852	81073
15°	90511	83105	81062
20°	90820	81093	80043
25°	87606	77044	77643
30°	81525	71741	73777
35°	73437	65637	68061
40°	64729	59721	62442
45°	56605	53814	56448
50°	50122	48414	50986
55°	44085	42773	44472
60°	39372	36510	37620
65°	34615	29653	29128
70°	30222	21855	19943
75°	25068	13153	10628
80°	18966	5114	3125
85°	8916	1274	1274



TEST NUMBER: P579949
 CATALOG NUMBER: HCC4S15D010BZ-HM40525935-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	4.6
10°-20°	185.7	13.5
20°-30°	268.9	19.6
30°-40°	283.7	20.6
40°-50°	245.6	17.9
50°-60°	181.9	13.2
60°-70°	104.8	7.6
70°-80°	36.6	2.7
80°-90°	3.8	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°	518.3	37.7
0°-40°	802.0	58.3
0°-60°	1229.4	89.4
0°-90°	1374.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	660	660	660	660	660	
5°	684	675	663	658	656	66
15°	709	686	651	636	635	199
25°	644	612	566	563	570	295
35°	488	465	436	446	452	305
45°	324	316	308	320	324	252
55°	205	201	199	206	207	185
65°	119	111	102	96	100	118
75°	53	45	28	22	22	57
85°	6	4	1	1	1	10
90°	0	0	0	0	0	

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



TEST NUMBER: P579949

CATALOG NUMBER: HCC4S15D010BZ-HM40525935-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7
2.5°	669.6	667.8	665.0	661.5	658.0	655.3	654.3	653.4	653.4
5°	683.8	680.3	674.9	667.8	663.3	660.6	658.0	656.2	656.2
7.5°	693.6	690.0	682.0	672.2	665.9	660.6	657.1	654.3	654.3
10°	698.0	693.6	683.8	671.3	661.5	654.3	649.0	647.3	647.3
12.5°	703.5	698.0	684.7	668.7	656.2	647.3	641.8	640.1	640.1
15°	708.8	702.6	685.6	666.9	650.8	640.1	635.7	634.8	634.8
17.5°	706.1	698.0	678.4	656.2	638.3	627.6	623.2	623.2	624.1
20°	691.9	683.8	661.5	636.5	617.8	609.8	606.2	608.1	609.8
22.5°	670.4	660.6	636.5	612.5	592.8	585.8	585.8	588.4	591.1
25°	643.7	634.8	611.6	584.9	566.1	560.8	562.6	567.0	570.5
27.5°	613.4	603.5	579.5	554.5	535.8	533.1	537.6	543.8	545.6
30°	572.4	564.3	543.8	519.7	503.7	502.8	509.0	513.5	518.0
32.5°	533.1	524.2	504.6	481.4	469.8	470.7	477.9	483.2	485.8
35°	487.7	479.6	465.4	446.6	435.9	437.7	445.7	451.2	452.0
37.5°	444.9	439.6	425.2	411.0	403.0	406.5	413.6	419.9	419.9
40°	402.0	397.6	386.9	375.3	370.9	375.3	382.5	387.8	387.8
42.5°	361.1	358.4	349.5	341.4	338.8	345.0	351.2	355.8	354.9
45°	324.5	321.9	315.6	309.4	308.5	314.7	320.1	322.7	323.6
47.5°	291.5	289.7	284.4	279.9	279.9	286.2	290.6	293.3	294.3
50°	261.2	259.5	255.0	251.4	252.3	258.6	262.1	264.8	265.7
52.5°	230.9	230.0	226.5	221.9	224.7	229.1	233.5	235.4	236.3
55°	205.0	205.0	200.6	197.0	198.9	203.3	205.9	206.8	206.8
57.5°	181.9	181.0	175.7	172.0	172.9	177.4	179.2	180.1	180.1
60°	159.6	158.7	153.4	148.0	148.0	150.7	151.6	152.5	152.5
62.5°	138.1	137.3	131.1	126.5	124.8	123.9	123.9	125.8	129.3
65°	118.6	117.7	111.4	104.3	101.6	98.9	96.3	98.1	99.8
67.5°	100.7	98.9	92.7	86.5	80.3	75.7	71.3	74.0	77.5
70°	83.8	82.0	74.9	67.8	60.6	53.4	49.9	53.4	55.3
72.5°	67.8	65.9	58.9	51.7	42.8	35.7	34.8	35.7	36.5
75°	52.6	51.7	44.6	36.5	27.6	22.3	22.3	22.3	22.3
77.5°	39.2	37.4	30.4	23.2	16.0	12.5	11.6	11.6	11.6
80°	26.7	25.0	18.8	13.4	7.2	5.3	5.3	4.4	4.4
82.5°	15.1	14.2	9.8	5.3	2.7	1.8	1.8	1.8	1.8
85°	6.3	5.3	3.5	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.0	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)