

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: P579935

Luminaire Tested: **HCC4S15D010MW-HM40525930-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S15D010MW-HM40525930-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

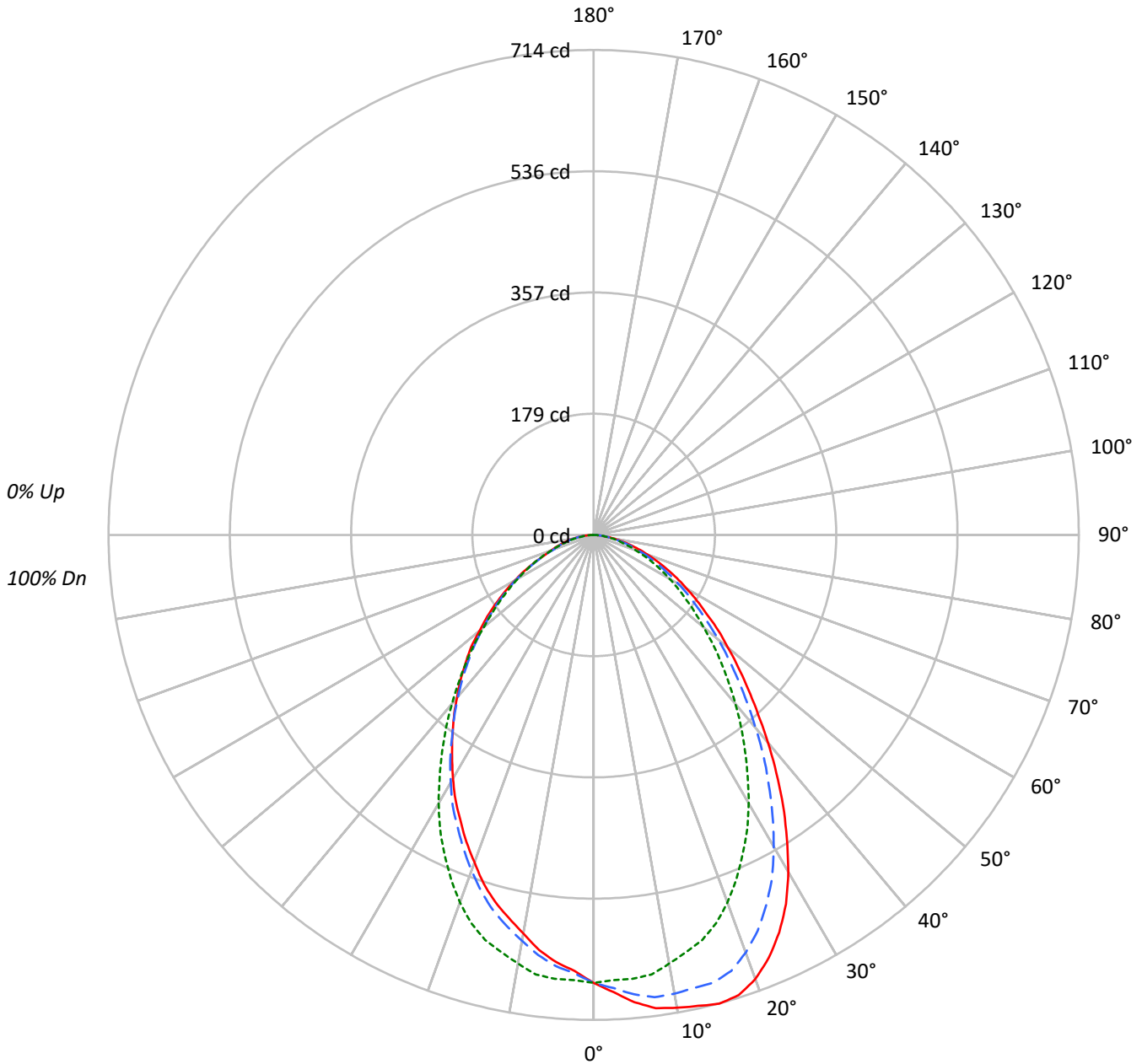
Lumens per Lamp: N/A
Luminaire Lumens: 1278.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579935
CATALOG NUMBER: HCC4S15D010MW-HM40525930-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P579935

CATALOG NUMBER: HCC4S15D010MW-HM40525930-41WWWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	81346	81346	81346
5°	85520	81224	78190
10°	88538	80259	74636
15°	91239	78814	71446
20°	91332	75567	67337
25°	87905	70621	63135
30°	81611	64990	58965
35°	73181	58499	54569
40°	64197	52218	50430
45°	56116	46208	46505
50°	49546	40451	41909
55°	43697	35870	37676
60°	39051	31749	32983
65°	34585	27902	27902
70°	30222	23838	23838
75°	25782	20159	22589
80°	20457	18042	20457
85°	13162	15568	19106



TEST NUMBER: P579935

CATALOG NUMBER: HCC4S15D010MW-HM40525930-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	4.9
10°-20°	176.0	13.8
20°-30°	246.5	19.3
30°-40°	254.0	19.9
40°-50°	216.2	16.9
50°-60°	160.2	12.5
60°-70°	100.5	7.9
70°-80°	50.0	3.9
80°-90°	13.1	1.0
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°	484.9	37.9
0°-40°	738.9	57.8
0°-60°	1115.3	87.2
0°-90°	1278.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	660	660	660	660	660	
5°	691	679	656	637	632	66
15°	714	682	617	572	560	201
25°	646	601	519	474	464	295
35°	486	450	388	363	362	303
45°	322	300	265	260	267	250
55°	203	187	167	170	175	184
65°	118	107	96	94	96	118
75°	54	48	42	46	47	58
85°	9	9	11	13	14	12
90°	0	0	0	0	0	



TEST NUMBER: P579935

CATALOG NUMBER: HCC4S15D010MW-HM40525930-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
2.5°	673.8	671.3	667.9	662.0	656.0	650.9	645.9	643.3	642.5
5°	690.7	685.7	678.9	667.9	656.0	645.9	637.4	633.2	631.5
7.5°	702.7	697.5	686.5	669.6	652.6	637.4	623.9	618.0	616.3
10°	706.9	701.0	685.7	662.9	640.8	622.2	606.9	599.3	595.9
12.5°	710.3	702.7	683.1	656.0	629.0	606.1	590.0	579.9	577.4
15°	714.5	706.0	682.3	649.3	617.2	590.0	572.3	562.9	559.5
17.5°	710.3	701.0	673.0	635.7	599.3	569.8	550.2	541.8	538.4
20°	695.8	685.7	654.3	614.5	575.7	545.2	525.6	517.2	513.0
22.5°	673.8	662.9	630.7	588.3	548.6	518.9	500.3	491.9	489.3
25°	645.9	634.9	601.0	557.8	518.9	490.2	474.0	466.4	463.9
27.5°	612.8	601.9	568.8	526.5	489.3	462.2	449.5	441.8	440.2
30°	573.0	562.1	530.0	491.0	456.3	430.9	420.7	414.8	414.0
32.5°	529.0	519.7	490.2	454.6	421.6	400.5	392.8	388.5	387.7
35°	486.0	475.7	449.5	417.4	388.5	370.0	363.2	362.4	362.4
37.5°	441.8	431.7	410.6	380.9	356.3	339.5	336.9	337.8	337.8
40°	398.7	389.4	370.8	346.2	324.3	311.5	310.6	312.3	313.2
42.5°	358.0	350.4	333.5	312.3	293.7	283.6	284.5	287.8	290.4
45°	321.7	314.9	299.7	281.1	264.9	257.3	259.9	264.1	266.6
47.5°	288.7	282.8	268.3	251.4	237.9	232.7	236.2	241.3	244.7
50°	258.2	253.1	239.6	221.8	210.8	207.4	211.6	216.7	218.4
52.5°	231.2	226.0	211.6	196.4	187.9	186.2	190.4	194.7	197.3
55°	203.2	199.0	187.0	173.5	166.8	165.9	170.1	173.5	175.2
57.5°	180.3	176.1	165.1	153.3	147.2	146.4	150.7	153.3	154.1
60°	158.3	154.1	143.9	132.9	128.7	128.7	131.2	132.9	133.7
62.5°	138.0	133.7	124.4	115.2	111.8	111.8	111.8	112.6	115.2
65°	118.5	115.2	106.7	98.2	95.6	93.9	93.9	93.9	95.6
67.5°	100.7	97.3	90.6	83.0	80.4	77.9	77.1	78.7	78.7
70°	83.8	81.3	74.5	68.6	66.1	63.4	62.6	66.1	66.1
72.5°	68.6	66.1	61.9	55.8	53.3	52.5	54.1	55.8	56.7
75°	54.1	51.6	48.2	44.9	42.3	43.2	45.7	46.5	47.4
77.5°	40.6	39.8	36.4	33.9	33.9	34.7	36.4	38.1	38.9
80°	28.8	28.0	26.3	24.6	25.4	27.1	28.0	29.7	28.8
82.5°	17.7	17.7	16.9	16.9	17.7	19.4	20.4	21.1	22.1
85°	9.3	9.3	9.3	10.1	11.0	11.8	12.7	13.5	13.5
87.5°	2.5	3.4	3.4	4.2	5.1	5.1	5.9	5.9	5.9
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)