

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: P579913

Luminaire Tested: **HCC4S15D010MB-HM40525927-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579913
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: HCC4S15D010MB-HM40525927-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

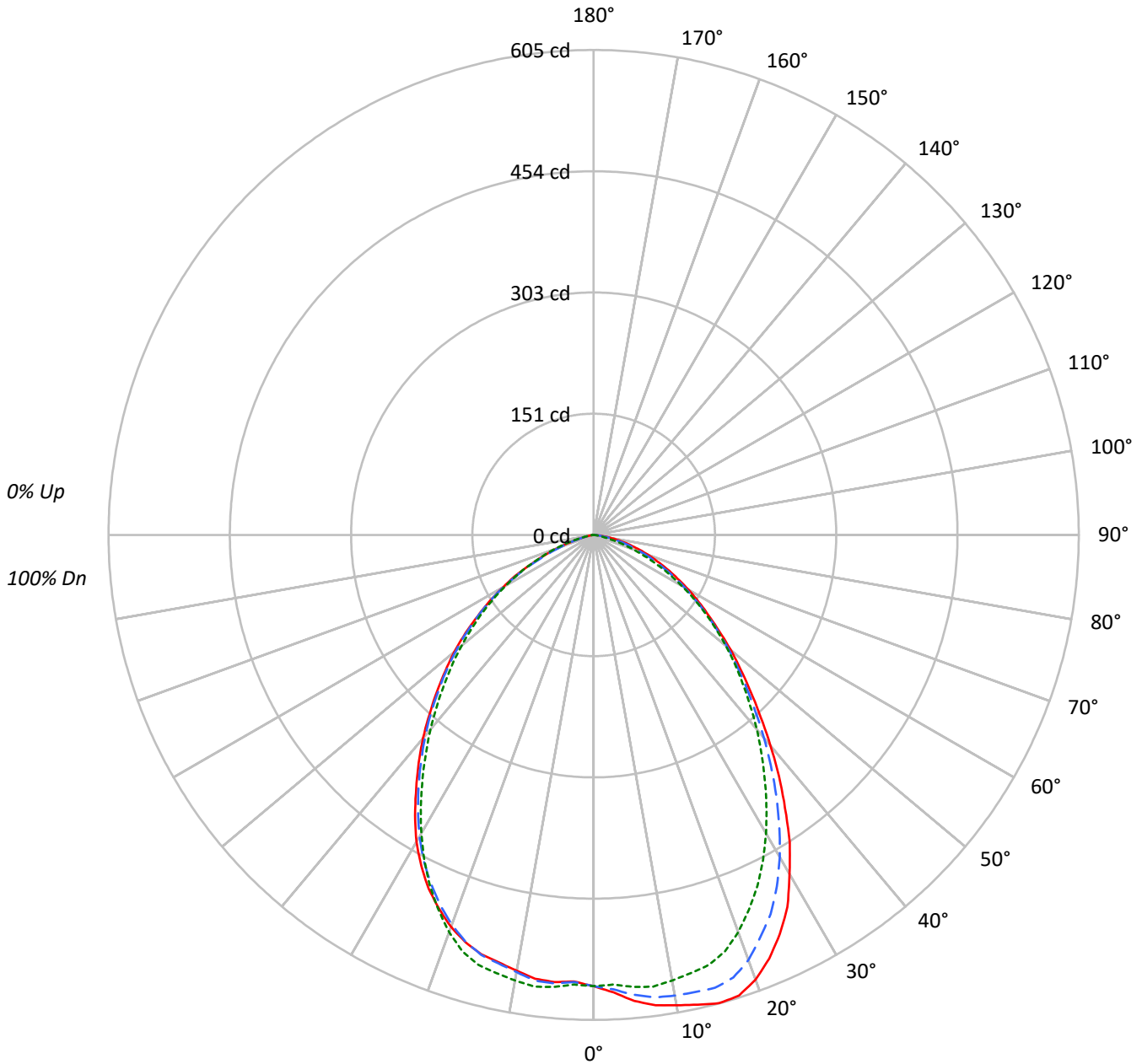
Lumens per Lamp: N/A
Luminaire Lumens: 1173.1 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579913
CATALOG NUMBER: HCC4S15D010MB-HM40525927-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P579913

CATALOG NUMBER: HCC4S15D010MB-HM40525927-41RWWC

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	61	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°	69431	69431	69431
5°	72247	70080	69325
10°	74610	70690	69162
15°	77231	70910	69173
20°	77484	69201	68295
25°	74758	65748	66266
30°	69547	61215	62953
35°	62655	56015	58078
40°	55229	50946	53280
45°	48302	45912	48180
50°	42773	41295	43502
55°	37633	36472	37956
60°	33599	31157	32095
65°	29536	25334	24867
70°	25786	18645	17022
75°	21398	11199	9055
80°	16266	4333	2699
85°	7501	1132	1132



TEST NUMBER: P579913
 CATALOG NUMBER: HCC4S15D010MB-HM40525927-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	4.6
10°-20°	158.5	13.5
20°-30°	229.5	19.6
30°-40°	242.1	20.6
40°-50°	209.5	17.9
50°-60°	155.2	13.2
60°-70°	89.5	7.6
70°-80°	31.2	2.7
80°-90°	3.3	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°	442.2	37.7
0°-40°	684.3	58.3
0°-60°	1049.1	89.4
0°-90°	1173.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	563	563	563	563	563	
5°	584	576	566	562	560	56
15°	605	585	555	542	542	170
25°	549	522	483	480	487	251
35°	416	397	372	380	386	260
45°	277	269	263	273	276	215
55°	175	171	170	176	176	158
65°	101	95	87	82	85	101
75°	45	38	24	19	19	48
85°	5	3	1	1	1	8
90°	0	0	0	0	0	



TEST NUMBER: P579913

CATALOG NUMBER: HCC4S15D010MB-HM40525927-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9
2.5°	571.3	569.8	567.5	564.4	561.5	559.2	558.4	557.6	557.6
5°	583.5	580.4	575.9	569.8	566.0	563.7	561.5	559.9	559.9
7.5°	591.8	588.9	581.9	573.6	568.3	563.7	560.7	558.4	558.4
10°	595.7	591.8	583.5	572.8	564.4	558.4	553.8	552.2	552.2
12.5°	600.2	595.7	584.2	570.5	559.9	552.2	547.7	546.2	546.2
15°	604.8	599.4	585.0	569.1	555.3	546.2	542.3	541.7	541.7
17.5°	602.5	595.7	579.0	559.9	544.6	535.5	531.8	531.8	532.5
20°	590.3	583.5	564.4	543.1	527.2	520.3	517.3	518.8	520.3
22.5°	572.0	563.7	543.1	522.6	505.9	499.8	499.8	502.1	504.4
25°	549.3	541.7	521.9	499.0	483.1	478.4	480.0	483.8	486.9
27.5°	523.4	515.1	494.5	473.2	457.2	454.9	458.7	464.0	465.6
30°	488.3	481.5	464.0	443.5	429.8	429.1	434.3	438.2	442.0
32.5°	454.9	447.3	430.6	410.8	400.9	401.7	407.7	412.3	414.6
35°	416.1	409.3	397.0	381.1	372.0	373.5	380.3	384.9	385.7
37.5°	379.6	375.0	362.8	350.7	343.8	346.9	352.9	358.3	358.3
40°	343.0	339.3	330.2	320.3	316.4	320.3	326.3	330.9	330.9
42.5°	308.1	305.9	298.2	291.4	289.0	294.4	299.7	303.6	302.8
45°	276.9	274.6	269.2	264.0	263.2	268.6	273.1	275.4	276.2
47.5°	248.8	247.2	242.6	238.9	238.9	244.2	248.0	250.3	251.0
50°	222.9	221.4	217.6	214.6	215.2	220.6	223.6	225.9	226.7
52.5°	197.0	196.2	193.2	189.4	191.7	195.5	199.3	200.8	201.6
55°	175.0	175.0	171.1	168.2	169.6	173.4	175.8	176.5	176.5
57.5°	155.2	154.4	149.9	146.8	147.6	151.3	152.9	153.7	153.7
60°	136.2	135.4	130.9	126.3	126.3	128.6	129.3	130.1	130.1
62.5°	117.9	117.1	111.9	108.0	106.5	105.7	105.7	107.2	110.3
65°	101.2	100.4	95.1	89.0	86.8	84.5	82.2	83.7	85.2
67.5°	86.0	84.5	79.1	73.8	68.4	64.7	60.8	63.1	66.2
70°	71.5	70.0	63.9	57.8	51.7	45.6	42.6	45.6	47.2
72.5°	57.8	56.3	50.3	44.1	36.5	30.5	29.7	30.5	31.2
75°	44.9	44.1	38.1	31.2	23.5	19.0	19.0	19.0	19.0
77.5°	33.4	31.9	25.8	19.8	13.6	10.7	9.9	9.9	9.9
80°	22.9	21.3	16.0	11.4	6.1	4.5	4.5	3.8	3.8
82.5°	13.0	12.2	8.4	4.5	2.3	1.5	1.5	1.5	1.5
85°	5.3	4.5	3.1	1.5	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	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)