

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: P592615

Luminaire Tested: **HCC4W10D010BZ-HM40525850-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592615
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: HCC4W10D010BZ-HM40525850-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

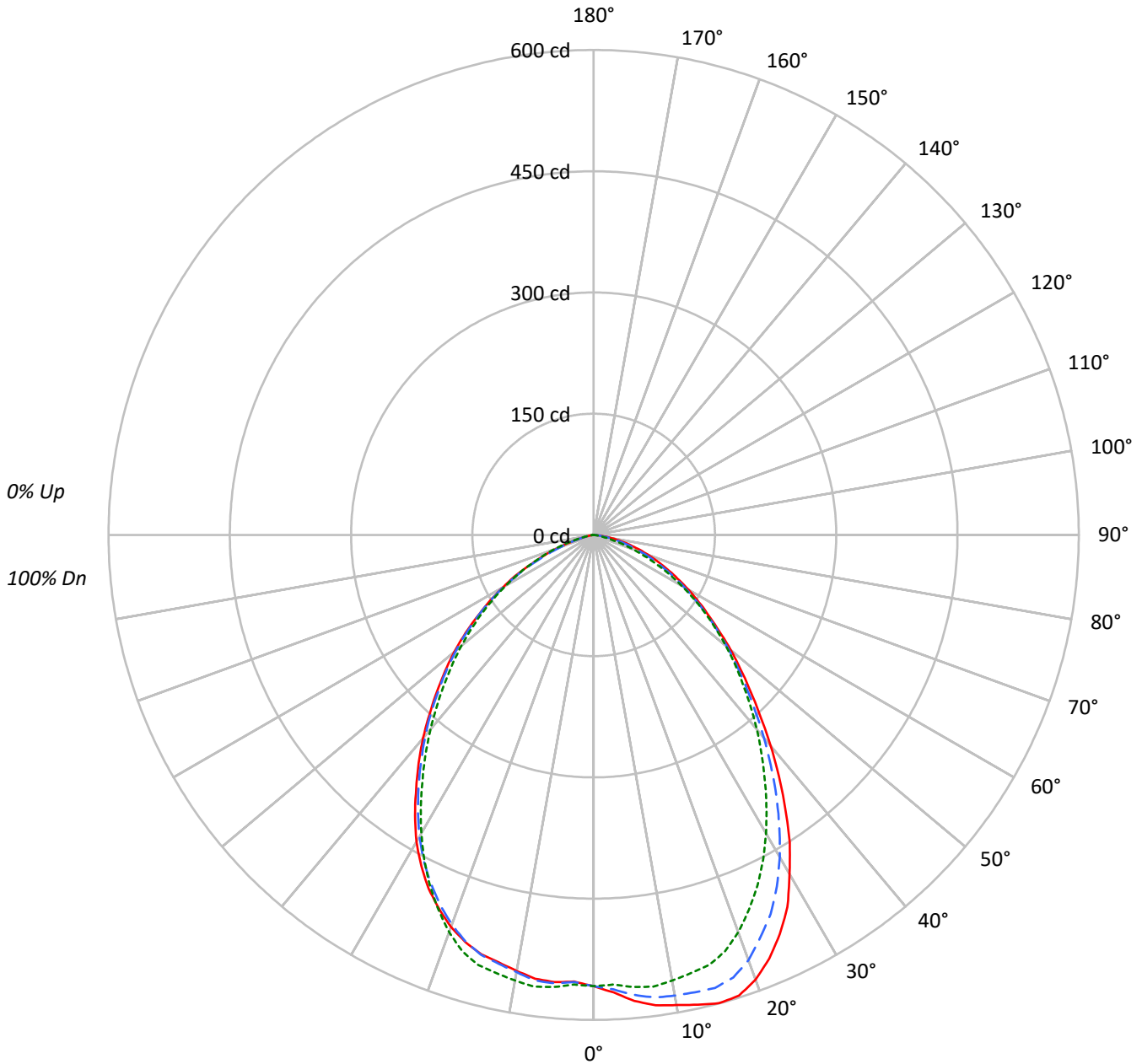
Lumens per Lamp: N/A
Luminaire Lumens: 1163.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P592615
CATALOG NUMBER: HCC4W10D010BZ-HM40525850-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P592615

CATALOG NUMBER: HCC4W10D010BZ-HM40525850-41RWWC

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°	68864	68864	68864
5°	71653	69511	68755
10°	73984	70114	68599
15°	76593	70335	68599
20°	76854	68637	67744
25°	74146	65204	65721
30°	68978	60717	62440
35°	62158	55548	57596
40°	54794	50543	52846
45°	47900	45546	47778
50°	42427	40969	43156
55°	37311	36171	37633
60°	33328	30910	31823
65°	29303	25100	24691
70°	25569	18501	16878
75°	21207	11152	9007
80°	16053	4262	2699
85°	7359	1132	1132



TEST NUMBER: P592615
 CATALOG NUMBER: HCC4W10D010BZ-HM40525850-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	4.6
10°-20°	157.1	13.5
20°-30°	227.6	19.6
30°-40°	240.1	20.6
40°-50°	207.8	17.9
50°-60°	153.9	13.2
60°-70°	88.8	7.6
70°-80°	31.0	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°	438.6	37.7
0°-40°	678.7	58.3
0°-60°	1040.5	89.4
0°-90°	1163.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	558	558	558	558	558	
5°	579	571	561	557	555	56
15°	600	580	551	538	537	169
25°	545	518	479	476	483	249
35°	413	394	369	377	382	258
45°	275	267	261	271	274	213
55°	174	170	168	174	175	157
65°	100	94	86	82	85	100
75°	44	38	23	19	19	48
85°	5	3	1	1	1	8
90°	0	0	0	0	0	



TEST NUMBER: P592615

CATALOG NUMBER: HCC4W10D010BZ-HM40525850-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3
2.5°	566.6	565.1	562.9	559.8	556.8	554.5	553.8	553.1	553.1
5°	578.7	575.7	571.2	565.1	561.4	559.1	556.8	555.3	555.3
7.5°	587.0	584.0	577.2	568.9	563.7	559.1	556.0	553.8	553.8
10°	590.7	587.0	578.7	568.1	559.8	553.8	549.3	547.7	547.7
12.5°	595.3	590.7	579.5	565.8	555.3	547.7	543.3	541.7	541.7
15°	599.8	594.5	580.2	564.3	550.8	541.7	537.9	537.2	537.2
17.5°	597.6	590.7	574.1	555.3	540.2	531.2	527.3	527.3	528.1
20°	585.5	578.7	559.8	538.7	522.9	516.1	513.0	514.6	516.1
22.5°	567.4	559.1	538.7	518.4	501.7	495.7	495.7	498.0	500.3
25°	544.8	537.2	517.6	494.9	479.1	474.5	476.1	479.9	482.9
27.5°	519.0	510.7	490.4	469.3	453.5	451.2	455.0	460.2	461.8
30°	484.3	477.6	460.2	439.8	426.3	425.5	430.8	434.6	438.4
32.5°	451.2	443.6	427.1	407.4	397.6	398.4	404.4	408.9	411.2
35°	412.8	405.9	393.9	378.0	368.9	370.4	377.2	381.8	382.5
37.5°	376.5	372.0	359.8	347.8	341.1	344.0	350.0	355.4	355.4
40°	340.3	336.5	327.4	317.6	313.9	317.6	323.6	328.2	328.2
42.5°	305.6	303.3	295.8	288.9	286.7	292.0	297.2	301.0	300.3
45°	274.6	272.3	267.1	261.9	261.1	266.3	270.8	273.1	273.9
47.5°	246.7	245.2	240.7	236.9	236.9	242.2	245.9	248.2	249.0
50°	221.1	219.5	215.8	212.8	213.5	218.8	221.8	224.1	224.9
52.5°	195.4	194.7	191.6	187.9	190.2	193.9	197.7	199.1	199.9
55°	173.5	173.5	169.8	166.7	168.2	172.1	174.3	175.0	175.0
57.5°	154.0	153.2	148.6	145.7	146.3	150.1	151.7	152.4	152.4
60°	135.1	134.3	129.7	125.3	125.3	127.5	128.3	129.0	129.0
62.5°	117.0	116.2	111.0	107.1	105.6	104.9	104.9	106.4	109.4
65°	100.4	99.6	94.3	88.3	86.0	83.8	81.5	83.0	84.6
67.5°	85.2	83.8	78.5	73.2	67.9	64.2	60.3	62.6	65.7
70°	70.9	69.4	63.4	57.4	51.3	45.3	42.2	45.3	46.8
72.5°	57.4	55.9	49.8	43.8	36.2	30.2	29.5	30.2	31.0
75°	44.5	43.8	37.7	31.0	23.4	18.9	18.9	18.9	18.9
77.5°	33.2	31.6	25.6	19.6	13.5	10.6	9.8	9.8	9.8
80°	22.6	21.2	15.8	11.3	6.0	4.6	4.6	3.8	3.8
82.5°	12.9	12.1	8.3	4.6	2.3	1.5	1.5	1.5	1.5
85°	5.2	4.6	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)