

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: P579769

Luminaire Tested: **HCC4W10D010MB-HM40525927-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579769
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: HCC4W10D010MB-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

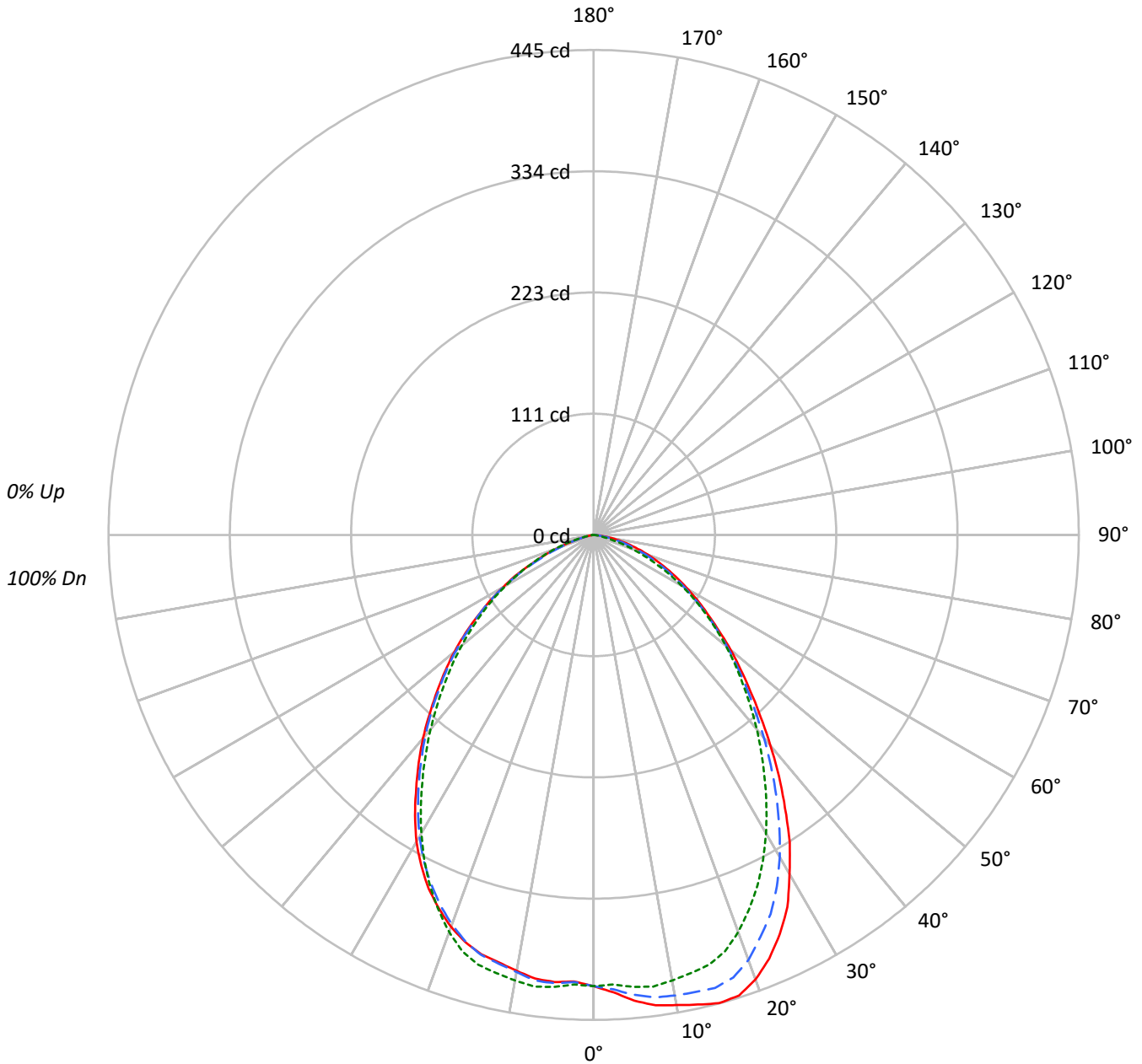
Lumens per Lamp: N/A
Luminaire Lumens: 862.8 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P579769
CATALOG NUMBER: HCC4W10D010MB-HM40525927-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P579769

CATALOG NUMBER: HCC4W10D010MB-HM40525927-41RWWC

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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51065	51065	51065
5°	53130	51545	50988
10°	54871	51991	50876
15°	56800	52151	50874
20°	56981	50890	50234
25°	54983	48355	48736
30°	51160	45021	46303
35°	46077	41198	42719
40°	40624	37468	39191
45°	35533	33771	35428
50°	31470	30376	31988
55°	27676	26816	27913
60°	24694	22918	23608
65°	21714	18592	18300
70°	18970	13704	12514
75°	15727	8245	6672
80°	11862	3125	1989
85°	5519	849	849



TEST NUMBER: P579769
 CATALOG NUMBER: HCC4W10D010MB-HM40525927-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	4.6
10°-20°	116.5	13.5
20°-30°	168.8	19.6
30°-40°	178.1	20.6
40°-50°	154.1	17.9
50°-60°	114.2	13.2
60°-70°	65.8	7.6
70°-80°	23.0	2.7
80°-90°	2.4	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°	325.3	37.7
0°-40°	503.3	58.3
0°-60°	771.6	89.4
0°-90°	862.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	414	414	414	414	414	
5°	429	424	416	413	412	41
15°	445	430	408	399	398	125
25°	404	384	355	353	358	185
35°	306	292	274	280	284	191
45°	204	198	194	201	203	158
55°	129	126	125	129	130	116
65°	74	70	64	60	63	74
75°	33	28	17	14	14	36
85°	4	2	1	1	1	6
90°	0	0	0	0	0	



TEST NUMBER: P579769

CATALOG NUMBER: HCC4W10D010MB-HM40525927-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	420.1	419.1	417.4	415.1	412.9	411.3	410.7	410.1	410.1
5°	429.1	426.9	423.6	419.1	416.3	414.6	412.9	411.8	411.8
7.5°	435.3	433.0	428.0	421.9	418.0	414.6	412.4	410.7	410.7
10°	438.1	435.3	429.1	421.3	415.1	410.7	407.3	406.2	406.2
12.5°	441.4	438.1	429.7	419.6	411.8	406.2	402.9	401.7	401.7
15°	444.8	440.9	430.3	418.6	408.4	401.7	399.0	398.4	398.4
17.5°	443.1	438.1	425.8	411.8	400.6	393.9	391.1	391.1	391.7
20°	434.1	429.1	415.1	399.4	387.7	382.7	380.4	381.6	382.7
22.5°	420.7	414.6	399.4	384.4	372.1	367.6	367.6	369.3	371.0
25°	404.0	398.4	383.8	367.0	355.3	352.0	353.0	355.9	358.1
27.5°	385.0	378.8	363.7	348.0	336.3	334.6	337.4	341.3	342.4
30°	359.2	354.1	341.3	326.2	316.1	315.6	319.4	322.3	325.1
32.5°	334.6	329.0	316.7	302.1	294.9	295.4	299.9	303.3	305.0
35°	306.0	301.0	292.0	280.3	273.6	274.7	279.7	283.1	283.7
37.5°	279.2	275.9	266.9	258.0	252.9	255.1	259.6	263.6	263.6
40°	252.3	249.6	242.8	235.6	232.7	235.6	240.0	243.4	243.4
42.5°	226.6	224.9	219.3	214.3	212.6	216.6	220.4	223.3	222.7
45°	203.7	202.0	198.0	194.1	193.6	197.6	200.9	202.6	203.1
47.5°	183.0	181.9	178.4	175.7	175.7	179.6	182.4	184.1	184.6
50°	164.0	162.8	160.0	157.7	158.3	162.3	164.4	166.1	166.7
52.5°	144.9	144.3	142.1	139.3	141.0	143.8	146.6	147.7	148.3
55°	128.7	128.7	125.9	123.7	124.7	127.6	129.3	129.8	129.8
57.5°	114.1	113.6	110.3	108.0	108.6	111.3	112.4	113.0	113.0
60°	100.1	99.6	96.3	92.9	92.9	94.6	95.1	95.7	95.7
62.5°	86.7	86.1	82.3	79.4	78.3	77.7	77.7	78.9	81.1
65°	74.4	73.9	70.0	65.4	63.7	62.1	60.4	61.6	62.7
67.5°	63.3	62.1	58.2	54.3	50.3	47.6	44.7	46.4	48.7
70°	52.6	51.4	47.0	42.6	38.0	33.6	31.3	33.6	34.7
72.5°	42.6	41.4	36.9	32.4	26.9	22.4	21.8	22.4	23.0
75°	33.0	32.4	28.0	23.0	17.3	14.0	14.0	14.0	14.0
77.5°	24.6	23.4	19.0	14.6	10.0	7.9	7.3	7.3	7.3
80°	16.7	15.7	11.7	8.4	4.4	3.3	3.3	2.8	2.8
82.5°	9.6	9.0	6.1	3.3	1.7	1.1	1.1	1.1	1.1
85°	3.9	3.3	2.3	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	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)