

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: P579771

Luminaire Tested: **HCC4S10D010MB-HM40525927-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S10D010MB-HM40525927-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

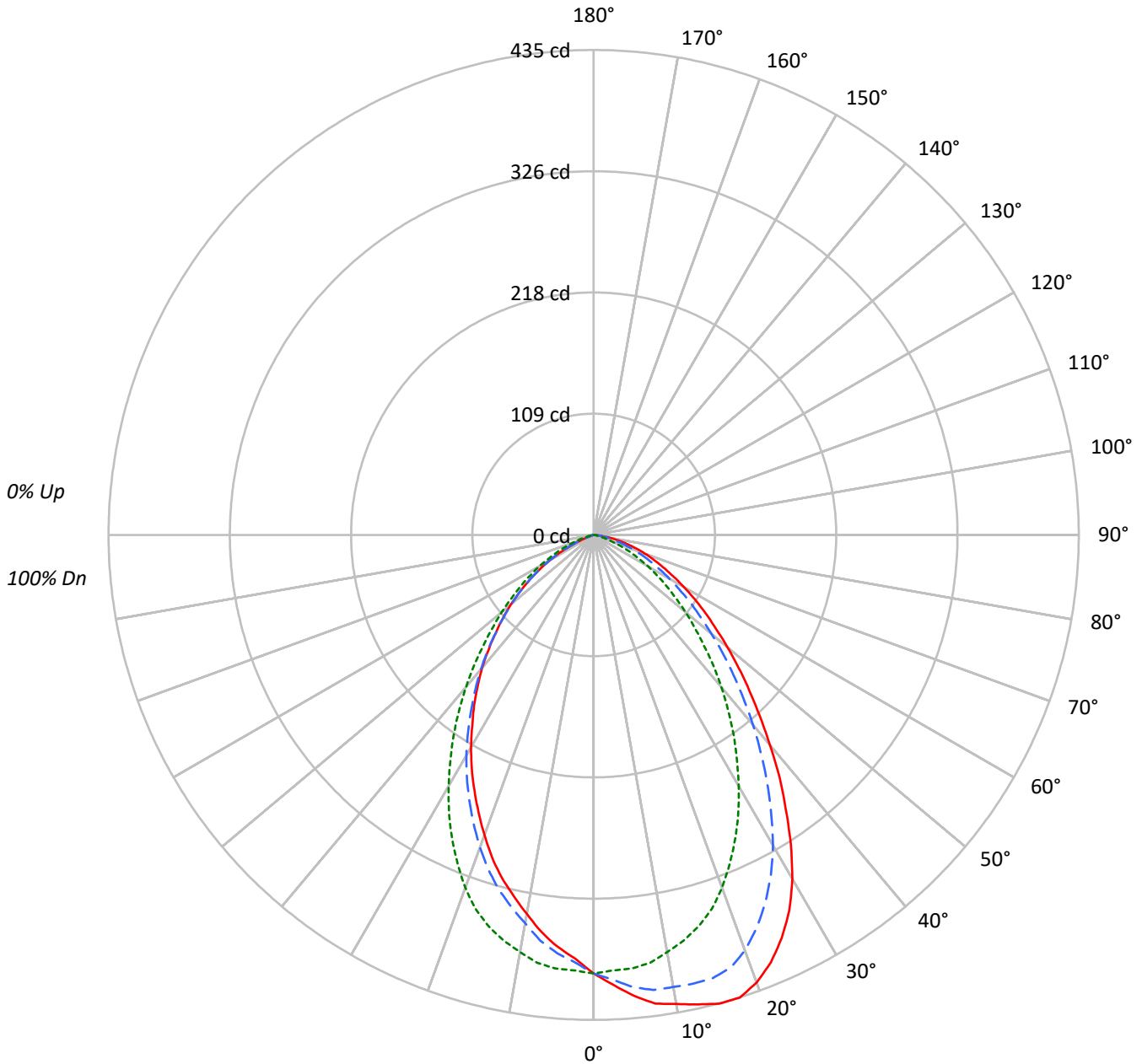
Lumens per Lamp: N/A
Luminaire Lumens: 679.3 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579771
CATALOG NUMBER: HCC4S10D010MB-HM40525927-41WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P579771

CATALOG NUMBER: HCC4S10D010MB-HM40525927-41WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78					78			
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61					61			
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55					55			
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49					49			
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44					44			
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40					40			
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48512	48512	48512
5°	51384	48338	45924
10°	53519	47582	43236
15°	55574	46431	40646
20°	56088	44196	37593
25°	54289	40883	34419
30°	50747	37045	31320
35°	45233	32931	28143
40°	39546	28645	25054
45°	34434	24299	21665
50°	30050	20609	18556
55°	26322	17075	15032
60°	23041	13815	11027
65°	20080	10303	6217
70°	17563	6636	2020
75°	14392	3479	524
80°	10726	1634	426
85°	6227	849	849



TEST NUMBER: P579771
 CATALOG NUMBER: HCC4S10D010MB-HM40525927-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	5.5
10°-20°	103.9	15.3
20°-30°	143.6	21.1
30°-40°	144.4	21.3
40°-50°	116.5	17.2
50°-60°	78.8	11.6
60°-70°	40.1	5.9
70°-80°	12.8	1.9
80°-90°	2.0	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°	284.6	41.9
0°-40°	429.0	63.2
0°-60°	624.3	91.9
0°-90°	679.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	393	393	393	393	393	
5°	415	407	390	376	371	40
15°	435	412	364	329	318	123
25°	399	364	300	263	253	183
35°	300	271	219	191	187	188
45°	197	177	139	124	124	153
55°	122	106	79	69	70	110
65°	69	56	35	23	21	69
75°	30	21	7	2	1	33
85°	4	2	1	1	1	6
90°	0	0	0	0	0	



TEST NUMBER: P579771

CATALOG NUMBER: HCC4S10D010MB-HM40525927-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3
2.5°	403.9	401.6	399.4	395.5	391.0	386.6	383.7	381.5	380.4
5°	415.0	412.3	407.2	398.9	390.4	382.6	376.5	372.6	370.9
7.5°	424.0	420.1	411.7	400.0	387.1	374.7	367.0	361.3	359.2
10°	427.3	422.9	411.7	396.0	379.9	364.7	353.6	347.9	345.2
12.5°	431.3	426.3	412.3	392.7	372.6	354.6	341.7	334.5	331.7
15°	435.2	428.5	411.7	387.6	363.6	342.9	328.9	321.6	318.3
17.5°	435.2	427.3	407.2	379.3	351.9	330.0	314.4	306.0	303.2
20°	427.3	418.4	396.6	365.9	336.7	313.3	298.2	289.7	286.4
22.5°	415.0	405.0	381.5	349.6	318.9	295.9	280.9	273.0	269.6
25°	398.9	388.7	364.2	331.2	300.4	277.4	263.4	256.2	252.9
27.5°	379.9	368.6	344.0	311.0	280.9	259.0	246.1	239.4	236.6
30°	356.3	345.7	321.6	289.2	260.1	240.0	228.3	222.0	219.9
32.5°	328.9	320.0	296.4	266.3	238.9	220.4	209.7	204.7	202.5
35°	300.4	292.0	271.3	243.3	218.7	201.4	191.3	188.0	186.9
37.5°	273.6	266.3	246.1	220.4	198.0	182.9	174.0	171.7	170.6
40°	245.6	240.6	222.0	198.6	177.9	164.4	157.2	155.6	155.6
42.5°	220.4	214.9	198.6	177.3	158.9	145.4	140.4	138.7	139.3
45°	197.4	191.9	176.7	157.2	139.3	128.1	124.2	124.2	124.2
47.5°	176.2	171.2	157.2	137.0	122.4	113.6	109.6	109.6	110.2
50°	156.6	153.3	137.6	120.3	107.4	99.0	96.2	95.7	96.7
52.5°	138.2	134.3	120.3	104.6	92.3	85.6	82.7	82.3	82.7
55°	122.4	118.0	105.7	90.6	79.4	72.7	69.4	68.8	69.9
57.5°	107.4	104.0	91.2	77.7	67.1	60.4	57.6	56.4	57.0
60°	93.4	90.0	78.3	65.4	56.0	49.3	45.3	44.2	44.7
62.5°	80.6	77.7	66.6	54.3	44.7	38.6	34.7	31.9	33.0
65°	68.8	66.0	56.0	43.6	35.3	28.6	23.0	20.7	21.3
67.5°	58.7	55.4	45.9	34.7	26.3	19.0	12.9	11.7	11.7
70°	48.7	45.3	36.9	26.9	18.4	10.0	5.6	5.6	5.6
72.5°	39.1	36.4	28.6	20.1	11.7	4.4	2.3	2.3	2.3
75°	30.2	28.0	21.3	14.0	7.3	2.3	1.7	1.1	1.1
77.5°	22.4	20.1	15.1	9.6	4.4	1.1	1.1	1.1	1.1
80°	15.1	13.4	10.0	5.6	2.3	0.6	0.6	0.6	0.6
82.5°	9.0	7.9	5.6	2.8	1.1	0.6	0.6	0.6	0.6
85°	4.4	3.3	2.3	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	0.6	0.6	0.6	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)