

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: P592545

Luminaire Tested: **HCC4S05D010BZ-HM40525850-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592545
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: HCC4S05D010BZ-HM40525850-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

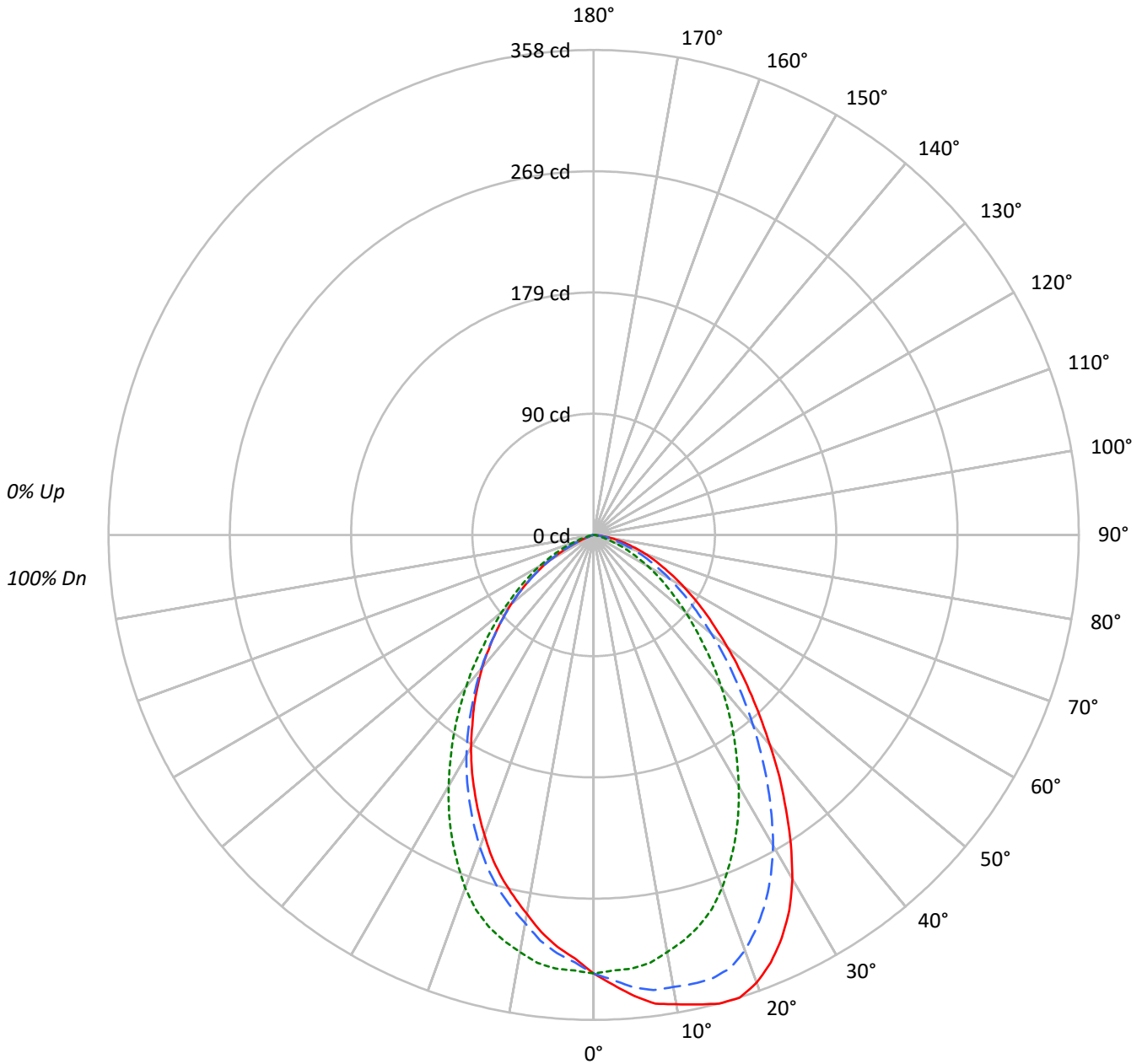
Lumens per Lamp: N/A
Luminaire Lumens: 559.2 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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: P592545
CATALOG NUMBER: HCC4S05D010BZ-HM40525850-41WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P592545

CATALOG NUMBER: HCC4S05D010BZ-HM40525850-41WWBB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39927	39927	39927
5°	42296	39795	37801
10°	44062	39165	35583
15°	45741	38220	33457
20°	46178	36386	30938
25°	44694	33657	28335
30°	41774	30494	25765
35°	37238	27104	23159
40°	32541	23573	20610
45°	28346	19990	17845
50°	24735	16963	15294
55°	21677	14064	12365
60°	18995	11372	9103
65°	16519	8493	5108
70°	14462	5482	1695
75°	11867	2859	429
80°	8879	1279	355
85°	5095	708	708



TEST NUMBER: P592545
 CATALOG NUMBER: HCC4S05D010BZ-HM40525850-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	5.5
10°-20°	85.5	15.3
20°-30°	118.2	21.1
30°-40°	118.9	21.3
40°-50°	95.9	17.2
50°-60°	64.9	11.6
60°-70°	33.0	5.9
70°-80°	10.6	1.9
80°-90°	1.6	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°	234.3	41.9
0°-40°	353.2	63.2
0°-60°	513.9	91.9
0°-90°	559.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	559.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	324	324	324	324	324	
5°	342	335	321	310	305	33
15°	358	339	299	271	262	101
25°	328	300	247	217	208	150
35°	247	223	180	157	154	155
45°	162	146	115	102	102	126
55°	101	87	65	57	58	91
65°	57	46	29	19	18	57
75°	25	18	6	1	1	27
85°	4	2	0	0	0	5
90°	0	0	0	0	0	



TEST NUMBER: P592545

CATALOG NUMBER: HCC4S05D010BZ-HM40525850-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7
2.5°	332.4	330.6	328.8	325.5	321.9	318.1	315.9	314.1	313.1
5°	341.6	339.4	335.2	328.4	321.4	315.0	309.9	306.7	305.3
7.5°	349.0	345.8	338.9	329.3	318.6	308.5	302.0	297.5	295.7
10°	351.8	348.1	338.9	326.0	312.7	300.2	291.0	286.4	284.1
12.5°	355.0	350.8	339.4	323.2	306.7	291.9	281.4	275.4	273.1
15°	358.2	352.8	338.9	319.0	299.3	282.3	270.7	264.8	262.0
17.5°	358.2	351.8	335.2	312.2	289.7	271.7	258.8	251.9	249.6
20°	351.8	344.5	326.4	301.1	277.2	257.9	245.4	238.6	235.7
22.5°	341.6	333.3	314.1	287.8	262.4	243.6	231.2	224.7	221.9
25°	328.4	320.1	299.8	272.6	247.3	228.4	216.9	210.9	208.2
27.5°	312.7	303.5	283.2	256.1	231.2	213.2	202.6	197.0	194.8
30°	293.3	284.5	264.8	238.0	214.1	197.5	187.8	182.8	180.9
32.5°	270.7	263.4	244.0	219.2	196.6	181.4	172.6	168.5	166.7
35°	247.3	240.4	223.4	200.3	180.0	165.8	157.4	154.7	153.8
37.5°	225.2	219.2	202.6	181.4	163.0	150.6	143.2	141.3	140.4
40°	202.1	197.9	182.8	163.4	146.4	135.4	129.4	128.0	128.0
42.5°	181.4	176.8	163.4	146.0	130.8	119.7	115.5	114.2	114.6
45°	162.5	158.0	145.5	129.4	114.6	105.4	102.3	102.3	102.3
47.5°	145.1	140.9	129.4	112.8	100.8	93.5	90.2	90.2	90.7
50°	128.9	126.2	113.3	99.0	88.4	81.5	79.2	78.8	79.7
52.5°	113.7	110.5	99.0	86.1	75.9	70.5	68.1	67.6	68.1
55°	100.8	97.2	87.1	74.6	65.4	59.8	57.1	56.6	57.5
57.5°	88.4	85.7	75.0	64.0	55.3	49.7	47.4	46.5	47.0
60°	77.0	74.1	64.5	53.9	46.1	40.5	37.3	36.4	36.9
62.5°	66.3	64.0	54.8	44.7	36.9	31.8	28.6	26.2	27.1
65°	56.6	54.4	46.1	35.9	29.1	23.5	18.8	17.0	17.5
67.5°	48.4	45.6	37.8	28.6	21.7	15.7	10.6	9.6	9.6
70°	40.1	37.3	30.4	22.1	15.2	8.3	4.7	4.7	4.7
72.5°	32.2	30.0	23.5	16.6	9.6	3.6	1.8	1.8	1.8
75°	24.9	23.0	17.5	11.5	6.0	1.8	1.4	0.9	0.9
77.5°	18.4	16.6	12.5	7.8	3.6	0.9	0.9	0.9	0.9
80°	12.5	11.0	8.3	4.7	1.8	0.5	0.5	0.5	0.5
82.5°	7.4	6.5	4.7	2.3	0.9	0.5	0.5	0.5	0.5
85°	3.6	2.7	1.8	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.9	0.5	0.5	0.5	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)