

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: P592565

Luminaire Tested: **HCC4S05D010BZ-HM40525950-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S05D010BZ-HM40525950-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

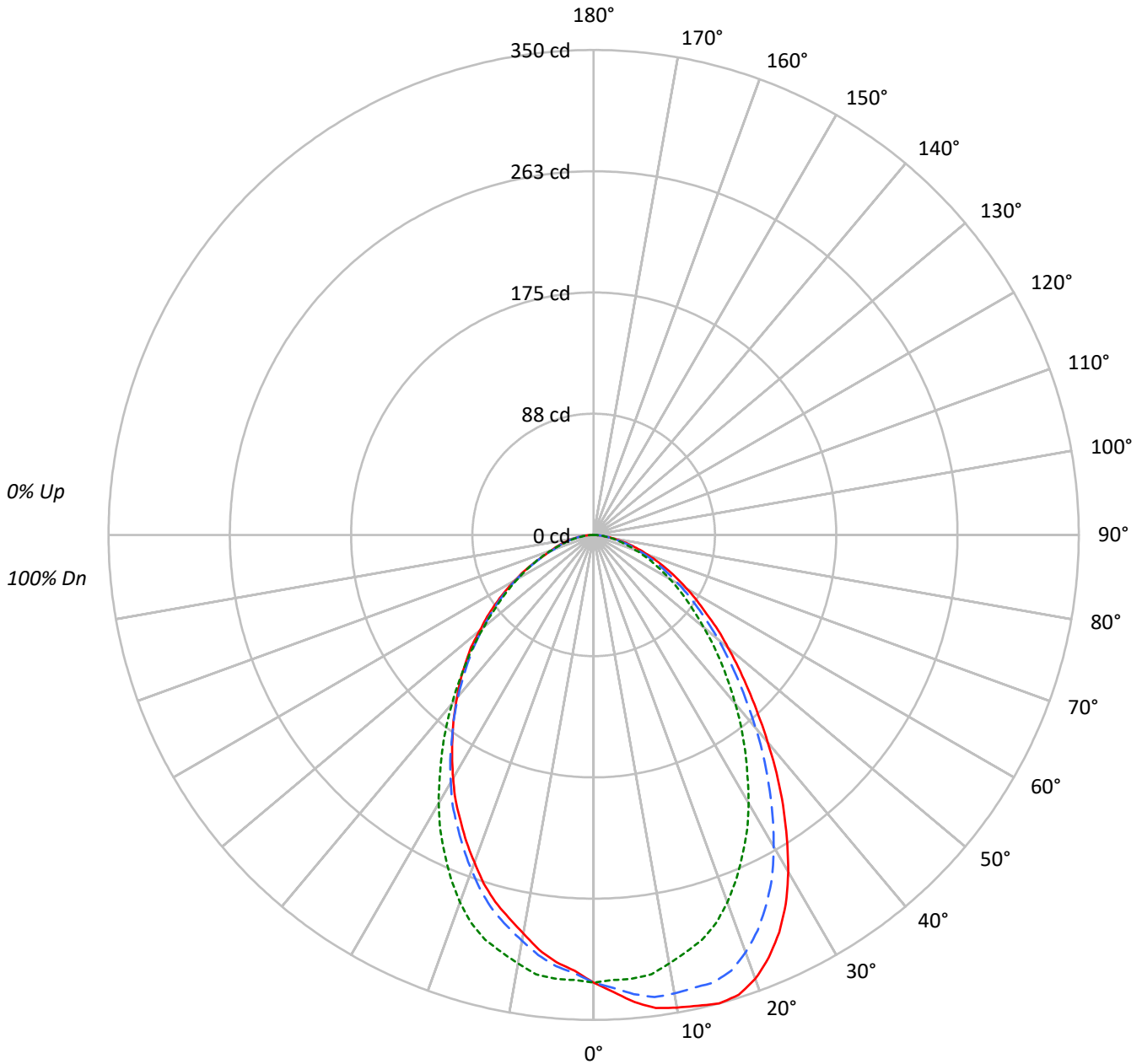
Lumens per Lamp: N/A
Luminaire Lumens: 626.7 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592565
CATALOG NUMBER: HCC4S05D010BZ-HM40525950-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P592565

CATALOG NUMBER: HCC4S05D010BZ-HM40525950-41WWWB

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	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°	39853	39853	39853
5°	41912	39807	38321
10°	43386	39341	36573
15°	44707	38616	35014
20°	44760	37016	32999
25°	43088	34596	30935
30°	39994	31847	28884
35°	35852	28685	26727
40°	31446	25585	24716
45°	27509	22642	22781
50°	24293	19822	20532
55°	21397	17569	18472
60°	19119	15566	16158
65°	16957	13688	13688
70°	14822	11649	11649
75°	12677	9913	11104
80°	10016	8879	10016
85°	6369	7642	9341



TEST NUMBER: P592565
 CATALOG NUMBER: HCC4S05D010BZ-HM40525950-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	4.9
10°-20°	86.2	13.8
20°-30°	120.8	19.3
30°-40°	124.5	19.9
40°-50°	106.0	16.9
50°-60°	78.5	12.5
60°-70°	49.3	7.9
70°-80°	24.5	3.9
80°-90°	6.4	1.0
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°	237.6	37.9
0°-40°	362.1	57.8
0°-60°	546.5	87.2
0°-90°	626.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	626.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	323	323	323	323	323	
5°	338	333	322	312	310	33
15°	350	334	302	280	274	98
25°	317	294	254	232	227	145
35°	238	220	190	178	178	148
45°	158	147	130	127	131	122
55°	100	92	82	83	86	90
65°	58	52	47	46	47	58
75°	27	24	21	22	23	28
85°	4	4	5	6	7	6
90°	0	0	0	0	0	

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



TEST NUMBER: P592565

CATALOG NUMBER: HCC4S05D010BZ-HM40525950-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	323.1	323.1	323.1	323.1	323.1	323.1	323.1	323.1	323.1
2.5°	330.2	328.9	327.3	324.4	321.5	319.0	316.6	315.3	314.8
5°	338.5	336.0	332.7	327.3	321.5	316.6	312.4	310.3	309.5
7.5°	344.4	341.9	336.4	328.1	319.8	312.4	305.8	302.8	302.0
10°	346.4	343.5	336.0	324.8	314.1	304.9	297.5	293.7	292.0
12.5°	348.0	344.4	334.7	321.5	308.3	297.0	289.1	284.2	283.0
15°	350.1	345.9	334.4	318.1	302.4	289.1	280.5	275.8	274.2
17.5°	348.0	343.5	329.8	311.6	293.7	279.2	269.7	265.5	263.8
20°	341.0	336.0	320.6	301.1	282.0	267.2	257.6	253.4	251.4
22.5°	330.2	324.8	309.1	288.3	268.8	254.2	245.2	241.0	239.8
25°	316.6	311.1	294.5	273.4	254.2	240.2	232.3	228.6	227.3
27.5°	300.3	295.0	278.8	258.0	239.8	226.5	220.3	216.6	215.8
30°	280.8	275.5	259.7	240.6	223.6	211.1	206.1	203.3	202.8
32.5°	259.2	254.7	240.2	222.8	206.6	196.2	192.5	190.5	190.0
35°	238.1	233.1	220.3	204.5	190.5	181.3	178.0	177.5	177.5
37.5°	216.6	211.6	201.2	186.7	174.7	166.4	165.1	165.5	165.5
40°	195.3	190.8	181.7	169.7	158.9	152.7	152.2	153.1	153.5
42.5°	175.5	171.7	163.4	153.1	143.9	138.9	139.4	141.1	142.3
45°	157.7	154.4	146.9	137.7	129.8	126.1	127.3	129.4	130.6
47.5°	141.4	138.6	131.5	123.1	116.6	114.1	115.8	118.3	119.9
50°	126.6	124.1	117.4	108.7	103.3	101.6	103.7	106.2	107.0
52.5°	113.3	110.8	103.7	96.2	92.0	91.3	93.3	95.5	96.7
55°	99.5	97.5	91.7	85.0	81.7	81.3	83.4	85.0	85.9
57.5°	88.3	86.3	80.9	75.1	72.2	71.7	73.9	75.1	75.5
60°	77.5	75.5	70.5	65.1	63.1	63.1	64.4	65.1	65.5
62.5°	67.6	65.5	60.9	56.4	54.7	54.7	54.7	55.2	56.4
65°	58.1	56.4	52.3	48.1	46.9	46.1	46.1	46.1	46.9
67.5°	49.4	47.7	44.4	40.6	39.4	38.1	37.8	38.6	38.6
70°	41.1	39.8	36.5	33.6	32.3	31.1	30.6	32.3	32.3
72.5°	33.6	32.3	30.3	27.4	26.1	25.8	26.6	27.4	27.8
75°	26.6	25.3	23.6	22.0	20.8	21.1	22.4	22.8	23.3
77.5°	19.9	19.5	17.8	16.6	16.6	17.0	17.8	18.6	19.1
80°	14.1	13.7	12.8	12.0	12.5	13.3	13.7	14.5	14.1
82.5°	8.7	8.7	8.3	8.3	8.7	9.5	10.0	10.3	10.8
85°	4.5	4.5	4.5	5.0	5.4	5.8	6.2	6.6	6.6
87.5°	1.2	1.7	1.7	2.0	2.5	2.5	3.0	3.0	3.0
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)