

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: P581063

Luminaire Tested: **HCC4S05D010SL-HM40525927-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S05D010SL-HM40525927-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

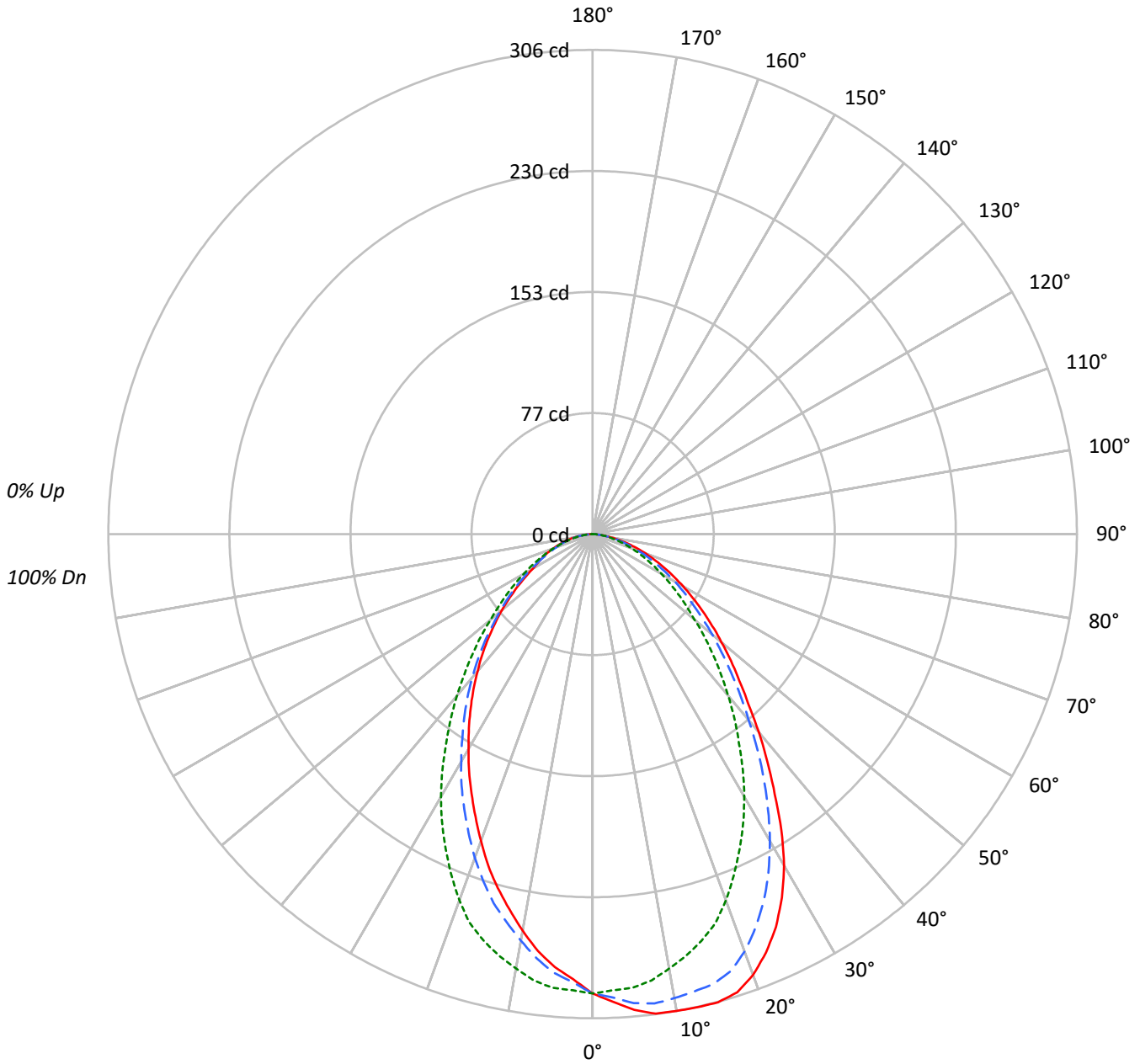
Lumens per Lamp: N/A
Luminaire Lumens: 518.4 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581063
CATALOG NUMBER: HCC4S05D010SL-HM40525927-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P581063

CATALOG NUMBER: HCC4S05D010SL-HM40525927-41WWW

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
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	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	35807	35807	35807
5°	37380	35647	34012
10°	38326	34919	31876
15°	39114	33967	29562
20°	38919	32330	27079
25°	37291	29887	24634
30°	34453	27289	22318
35°	30206	24273	20223
40°	26278	21447	18195
45°	22886	18717	16275
50°	20379	16119	14354
55°	18214	14172	12430
60°	16257	12384	10706
65°	14447	10857	10157
70°	12694	9377	9485
75°	10771	7959	8817
80°	8240	6748	7956
85°	4812	5236	6793



TEST NUMBER: P581063

CATALOG NUMBER: HCC4S05D010SL-HM40525927-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	5.2
10°-20°	75.1	14.5
20°-30°	102.6	19.8
30°-40°	103.0	19.9
40°-50°	85.2	16.4
50°-60°	61.7	11.9
60°-70°	39.1	7.5
70°-80°	19.8	3.8
80°-90°	4.8	0.9
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°	204.8	39.5
0°-40°	307.8	59.4
0°-60°	454.7	87.7
0°-90°	518.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	290	290	290	290	290	
5°	302	298	288	278	275	29
15°	306	294	266	242	232	86
25°	274	256	220	192	181	125
35°	201	188	161	141	134	126
45°	131	124	107	97	93	102
55°	85	77	66	60	58	76
65°	50	44	37	34	35	49
75°	23	20	17	17	18	24
85°	3	3	4	4	5	5
90°	0	0	0	0	0	



TEST NUMBER: P581063

CATALOG NUMBER: HCC4S05D010SL-HM40525927-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3
2.5°	295.8	294.8	293.1	291.0	288.6	285.9	283.5	282.2	281.5
5°	301.9	300.5	297.5	293.1	287.9	282.8	278.4	275.7	274.7
7.5°	305.7	303.6	299.2	292.4	284.5	277.1	270.5	266.7	265.7
10°	306.0	303.6	297.8	288.6	278.8	268.8	260.9	255.5	254.5
12.5°	306.3	303.3	296.1	285.2	273.0	260.6	251.1	244.6	242.9
15°	306.3	303.3	294.4	281.5	266.0	252.1	241.5	233.9	231.5
17.5°	303.6	300.2	289.7	274.7	257.9	242.2	229.8	222.0	219.6
20°	296.5	292.7	280.8	264.3	246.3	229.8	217.6	209.4	206.3
22.5°	286.2	281.8	269.1	251.4	233.2	216.6	204.6	196.0	193.3
25°	274.0	269.4	255.8	238.5	219.6	204.0	191.9	184.1	181.0
27.5°	258.9	254.1	240.8	223.4	206.0	190.2	179.3	172.2	169.1
30°	241.9	236.8	224.0	207.4	191.6	176.6	166.1	160.1	156.7
32.5°	222.0	217.6	206.3	191.2	176.6	162.2	153.3	148.2	145.5
35°	200.6	198.1	188.5	175.6	161.2	149.3	141.4	136.7	134.3
37.5°	181.4	179.0	170.8	159.8	147.2	136.3	129.8	125.6	123.6
40°	163.2	161.2	153.3	144.1	133.2	123.6	118.2	115.1	113.0
42.5°	145.5	144.5	138.0	129.5	119.9	111.7	107.3	104.9	103.2
45°	131.2	129.8	123.6	115.4	107.3	100.4	96.7	95.0	93.3
47.5°	118.5	116.8	110.3	103.2	95.7	89.4	86.0	84.3	83.6
50°	106.2	104.5	98.7	91.6	84.0	79.6	76.8	75.1	74.8
52.5°	95.3	93.6	87.1	80.2	74.5	70.7	68.3	66.6	65.9
55°	84.7	82.6	77.2	70.7	65.9	62.5	60.2	58.5	57.8
57.5°	75.1	73.1	68.3	62.2	57.8	54.7	52.6	50.8	50.2
60°	65.9	64.2	59.8	53.9	50.2	47.4	45.4	44.0	43.4
62.5°	57.4	56.1	51.5	46.4	43.4	41.0	39.3	37.9	38.6
65°	49.5	48.1	44.0	39.6	37.2	34.8	33.5	33.5	34.8
67.5°	42.0	40.6	37.2	33.5	31.4	29.7	28.7	29.7	30.8
70°	35.2	33.8	30.8	27.7	26.0	24.6	24.6	25.7	26.3
72.5°	28.7	27.4	25.0	22.6	21.2	20.2	21.2	21.9	22.6
75°	22.6	21.6	19.5	17.7	16.7	16.3	17.4	18.0	18.5
77.5°	16.7	16.0	14.6	13.3	12.6	12.9	14.0	14.3	14.6
80°	11.6	11.2	10.2	9.5	9.5	9.9	10.6	10.9	11.2
82.5°	7.2	7.2	6.5	6.1	6.5	7.2	7.5	7.8	7.8
85°	3.4	3.7	3.4	3.4	3.7	4.4	4.4	4.8	4.8
87.5°	1.0	1.0	1.4	1.4	1.7	1.7	1.7	1.7	2.0
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)