

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: P580393

Luminaire Tested: **HCC4S30D010MW-HM43040940-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010MW-HM43040940-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

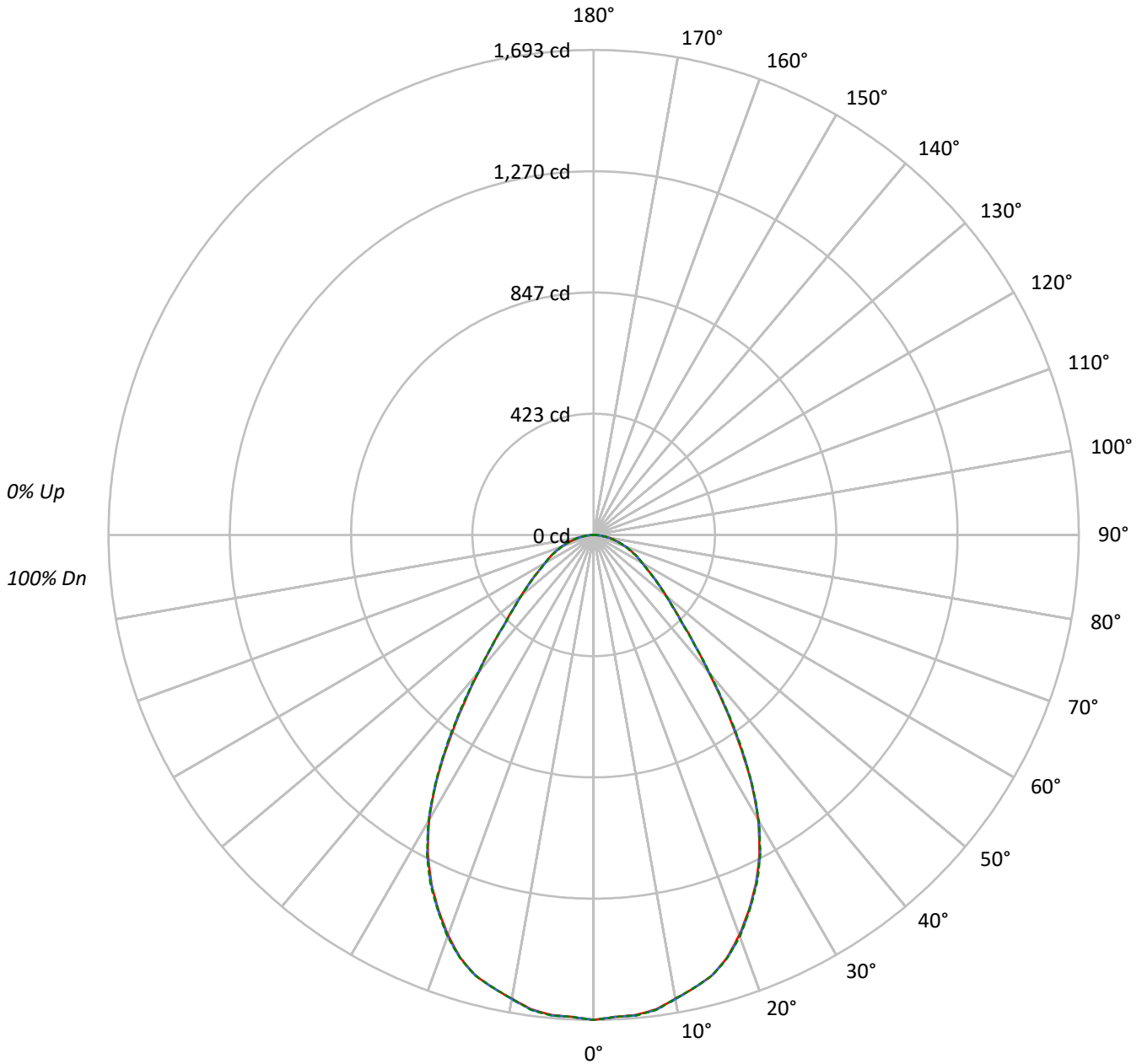
Lumens per Lamp: N/A
Luminaire Lumens: 2612.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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: P580393
CATALOG NUMBER: HCC4S30D010MW-HM43040940-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P580393

CATALOG NUMBER: HCC4S30D010MW-HM43040940-41WDW

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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69					69			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	208824	208824	208824
5°	208322	208532	208532
10°	205896	206134	205896
15°	203434	203434	203434
20°	195094	195541	195764
25°	182465	182710	183186
30°	163506	164005	164005
35°	132734	133788	134059
40°	100184	100748	101022
45°	76735	76421	76421
50°	63228	62883	62883
55°	54256	53891	53891
60°	48425	48006	48006
65°	45530	45530	45530
70°	42339	42339	42339
75°	38459	39222	38459
80°	36155	34877	36155
85°	29720	29720	29720



TEST NUMBER: P580393
 CATALOG NUMBER: HCC4S30D010MW-HM43040940-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	6.1
10°-20°	446.4	17.1
20°-30°	613.4	23.5
30°-40°	551.5	21.1
40°-50°	348.5	13.3
50°-60°	227.5	8.7
60°-70°	154.2	5.9
70°-80°	86.8	3.3
80°-90°	24.4	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°	1219.3	46.7
0°-40°	1770.8	67.8
0°-60°	2346.8	89.8
0°-90°	2612.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1682	1682	1684	1684	1684	159
15°	1593	1593	1593	1593	1593	446
25°	1341	1342	1342	1346	1346	612
35°	882	885	888	892	890	549
45°	440	438	438	438	438	349
55°	252	252	251	252	251	228
65°	156	156	156	156	156	155
75°	81	82	82	82	81	86
85°	21	21	21	21	21	25
90°	0	0	0	0	0	



TEST NUMBER: P580393

CATALOG NUMBER: HCC4S30D010MW-HM43040940-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693.0	1693.0	1693.0	1693.0	1693.0
2.5°	1684.2	1684.2	1684.2	1684.2	1684.2
5°	1682.5	1682.5	1684.2	1684.2	1684.2
7.5°	1670.2	1672.0	1672.0	1672.0	1672.0
10°	1643.9	1643.9	1645.8	1645.8	1643.9
12.5°	1619.5	1619.5	1619.5	1621.2	1619.5
15°	1593.1	1593.1	1593.1	1593.1	1593.1
17.5°	1547.5	1549.3	1549.3	1549.3	1549.3
20°	1486.3	1489.7	1489.7	1491.4	1491.4
22.5°	1416.1	1417.9	1419.6	1421.4	1419.6
25°	1340.7	1342.5	1342.5	1346.0	1346.0
27.5°	1253.1	1254.9	1258.4	1258.4	1258.4
30°	1148.0	1149.7	1151.5	1151.5	1151.5
32.5°	1023.5	1023.5	1027.0	1028.7	1027.0
35°	881.5	885.0	888.5	892.1	890.3
37.5°	746.6	750.1	751.9	751.9	753.6
40°	622.2	625.7	625.7	629.2	627.4
42.5°	524.1	522.3	522.3	525.8	524.1
45°	439.9	438.1	438.1	438.1	438.1
47.5°	378.6	376.9	376.9	376.9	376.9
50°	329.5	327.7	327.7	327.7	327.7
52.5°	289.2	287.4	287.4	287.4	285.7
55°	252.3	252.3	250.6	252.3	250.6
57.5°	219.1	219.1	219.1	219.1	219.1
60°	196.3	194.6	194.6	194.6	194.6
62.5°	175.3	175.3	175.3	175.3	175.3
65°	156.0	156.0	156.0	156.0	156.0
67.5°	136.7	134.9	136.7	136.7	134.9
70°	117.4	115.6	117.4	117.4	117.4
72.5°	98.1	98.1	98.1	99.9	98.1
75°	80.7	82.3	82.3	82.3	80.7
77.5°	64.9	66.6	64.9	64.9	64.9
80°	50.9	49.1	49.1	49.1	50.9
82.5°	35.1	35.1	35.1	35.1	35.1
85°	21.0	21.0	21.0	21.0	21.0
87.5°	8.8	8.8	8.8	8.8	8.8
90°	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)