

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: P580357

Luminaire Tested: **HCC4S30D010MW-HM43040930-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580357
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-HM43040930-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

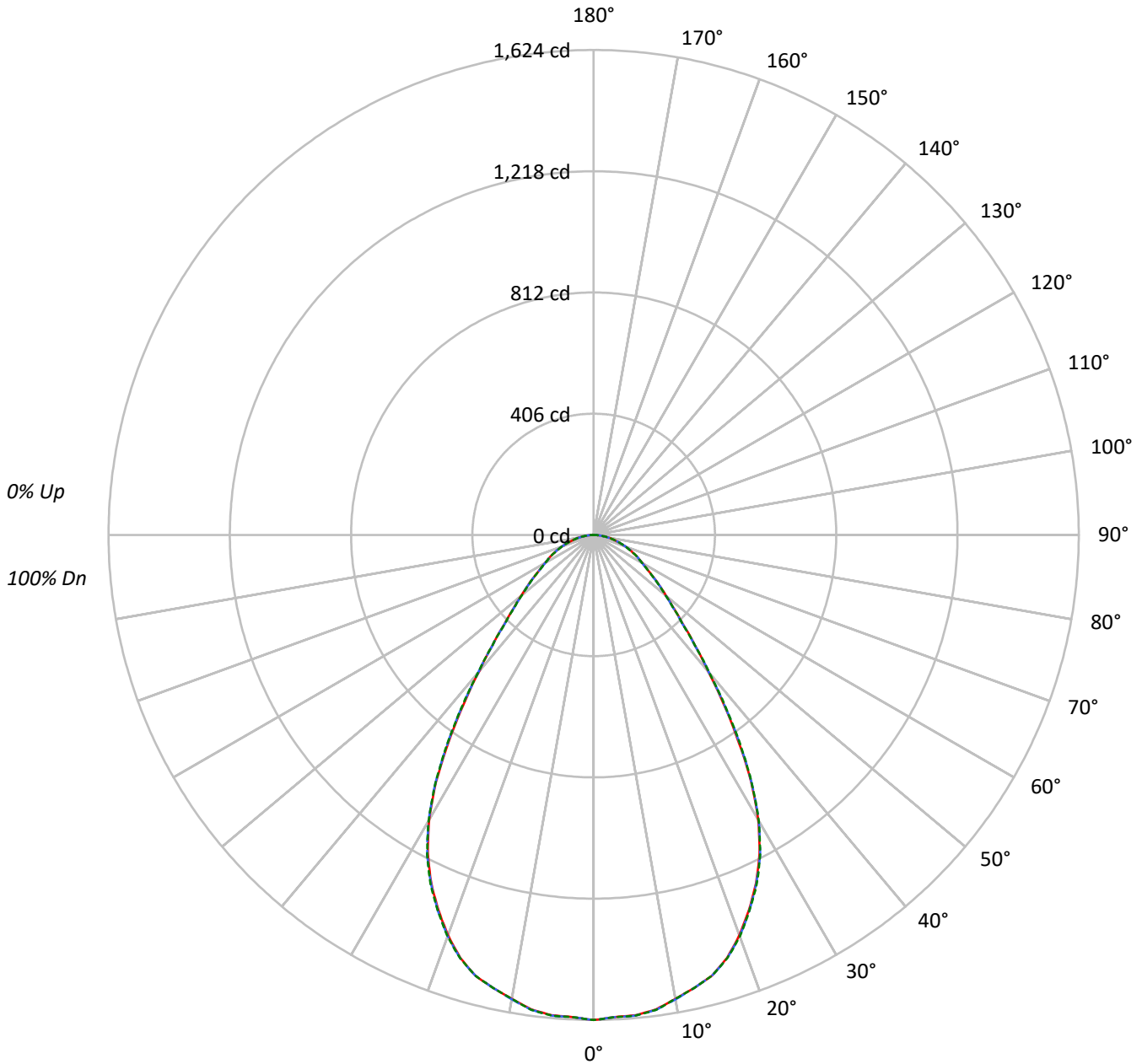
Lumens per Lamp: N/A
Luminaire Lumens: 2506.3 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580357
CATALOG NUMBER: HCC4S30D010MW-HM43040930-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P580357

CATALOG NUMBER: HCC4S30D010MW-HM43040930-41WDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	200350	200350	200350
5°	199877	200088	200088
10°	197554	197767	197554
15°	195172	195172	195172
20°	187166	187612	187835
25°	175075	175306	175755
30°	156869	157354	157354
35°	127358	128367	128623
40°	96111	96658	96932
45°	73630	73333	73333
50°	60676	60350	60350
55°	52084	51719	51719
60°	46477	46057	46057
65°	43692	43692	43692
70°	40644	40644	40644
75°	36887	37697	36887
80°	34593	33385	34593
85°	28588	28588	28588



TEST NUMBER: P580357

CATALOG NUMBER: HCC4S30D010MW-HM43040930-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	6.1
10°-20°	428.3	17.1
20°-30°	588.5	23.5
30°-40°	529.2	21.1
40°-50°	334.4	13.3
50°-60°	218.3	8.7
60°-70°	147.9	5.9
70°-80°	83.3	3.3
80°-90°	23.4	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°	1169.8	46.7
0°-40°	1699.0	67.8
0°-60°	2251.7	89.8
0°-90°	2506.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1614	1614	1616	1616	1616	153
15°	1528	1528	1528	1528	1528	428
25°	1286	1288	1288	1291	1291	587
35°	846	849	852	856	854	527
45°	422	420	420	420	420	335
55°	242	242	240	242	240	219
65°	150	150	150	150	150	148
75°	77	79	79	79	77	83
85°	20	20	20	20	20	24
90°	0	0	0	0	0	



TEST NUMBER: P580357

CATALOG NUMBER: HCC4S30D010MW-HM43040930-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1624.3	1624.3	1624.3	1624.3	1624.3
2.5°	1616.0	1616.0	1616.0	1616.0	1616.0
5°	1614.3	1614.3	1616.0	1616.0	1616.0
7.5°	1602.4	1604.1	1604.1	1604.1	1604.1
10°	1577.3	1577.3	1579.0	1579.0	1577.3
12.5°	1553.7	1553.7	1553.7	1555.4	1553.7
15°	1528.4	1528.4	1528.4	1528.4	1528.4
17.5°	1484.8	1486.5	1486.5	1486.5	1486.5
20°	1425.9	1429.3	1429.3	1431.0	1431.0
22.5°	1358.7	1360.4	1362.1	1363.8	1362.1
25°	1286.4	1288.1	1288.1	1291.4	1291.4
27.5°	1202.3	1203.9	1207.3	1207.3	1207.3
30°	1101.4	1103.1	1104.8	1104.8	1104.8
32.5°	982.0	982.0	985.4	987.0	985.4
35°	845.8	849.2	852.5	855.9	854.2
37.5°	716.3	719.7	721.4	721.4	723.0
40°	596.9	600.3	600.3	603.7	602.0
42.5°	502.7	501.1	501.1	504.4	502.7
45°	422.1	420.4	420.4	420.4	420.4
47.5°	363.2	361.5	361.5	361.5	361.5
50°	316.2	314.5	314.5	314.5	314.5
52.5°	277.5	275.8	275.8	275.8	274.1
55°	242.2	242.2	240.5	242.2	240.5
57.5°	210.1	210.1	210.1	210.1	210.1
60°	188.4	186.7	186.7	186.7	186.7
62.5°	168.2	168.2	168.2	168.2	168.2
65°	149.7	149.7	149.7	149.7	149.7
67.5°	131.2	129.5	131.2	131.2	129.5
70°	112.7	111.0	112.7	112.7	112.7
72.5°	94.2	94.2	94.2	95.9	94.2
75°	77.4	79.1	79.1	79.1	77.4
77.5°	62.3	63.8	62.3	62.3	62.3
80°	48.7	47.0	47.0	47.0	48.7
82.5°	33.6	33.6	33.6	33.6	33.6
85°	20.2	20.2	20.2	20.2	20.2
87.5°	8.5	8.5	8.5	8.5	8.5
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)