

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: P580360

Luminaire Tested: **HCC4S30D010SL-HM43040930-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580360
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: HCC4S30D010SL-HM43040930-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

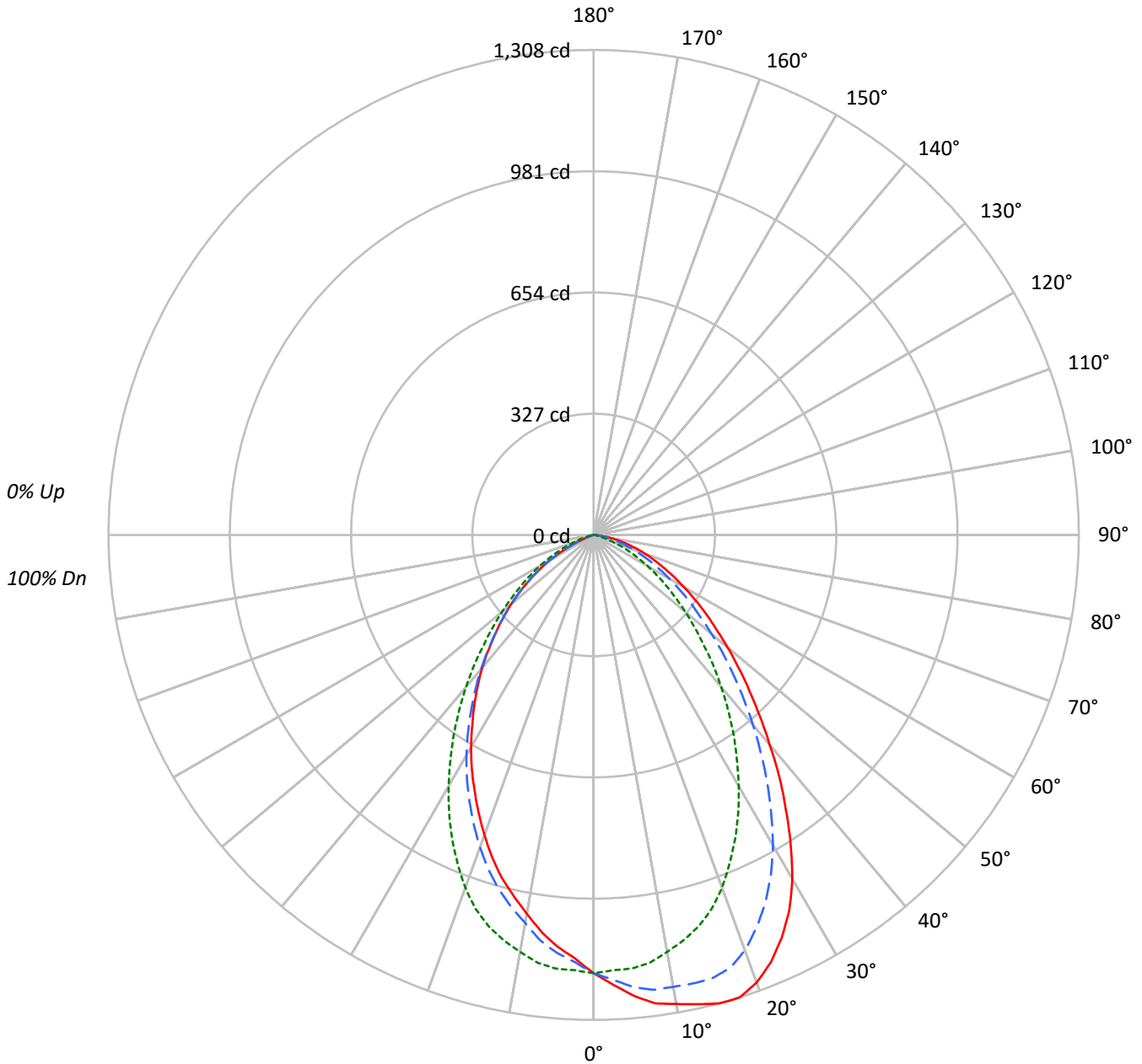
Lumens per Lamp: N/A
Luminaire Lumens: 2042.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P580360
CATALOG NUMBER: HCC4S30D010SL-HM43040930-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580360

CATALOG NUMBER: HCC4S30D010SL-HM43040930-41WWBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	145807	145807	145807
5°	154486	145336	138043
10°	160907	143009	129945
15°	167066	139573	122180
20°	168632	132876	113016
25°	163180	122895	103434
30°	152554	111364	94130
35°	135971	99005	84564
40°	118862	86112	75259
45°	103546	73037	65117
50°	90343	61943	55821
55°	79202	51353	45181
60°	69296	41493	33205
65°	60386	30908	18621
70°	52761	20015	6059
75°	43273	10437	1620
80°	32320	4830	1208
85°	18964	2406	2406



TEST NUMBER: P580360
 CATALOG NUMBER: HCC4S30D010SL-HM43040930-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	5.5
10°-20°	312.3	15.3
20°-30°	431.7	21.1
30°-40°	434.1	21.3
40°-50°	350.3	17.2
50°-60°	236.9	11.6
60°-70°	120.6	5.9
70°-80°	38.6	1.9
80°-90°	5.9	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°	855.6	41.9
0°-40°	1289.7	63.2
0°-60°	1876.9	91.9
0°-90°	2042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2042.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1182	1182	1182	1182	1182	
5°	1248	1224	1174	1132	1115	120
15°	1308	1238	1093	989	957	368
25°	1199	1095	903	792	760	549
35°	903	816	658	575	562	564
45°	594	531	419	373	373	460
55°	368	318	239	209	210	331
65°	207	168	106	69	64	207
75°	91	64	22	5	3	98
85°	13	7	2	2	2	18
90°	0	0	0	0	0	

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



TEST NUMBER: P580360

CATALOG NUMBER: HCC4S30D010SL-HM43040930-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1
2.5°	1214.1	1207.4	1200.6	1188.9	1175.4	1162.0	1153.6	1146.8	1143.5
5°	1247.7	1239.3	1224.2	1199.0	1173.8	1150.2	1131.7	1119.9	1114.9
7.5°	1274.6	1262.9	1237.6	1202.3	1163.6	1126.6	1103.1	1086.3	1079.6
10°	1284.7	1271.3	1237.6	1190.6	1141.8	1096.4	1062.8	1046.0	1037.5
12.5°	1296.5	1281.4	1239.3	1180.5	1119.9	1066.1	1027.5	1005.6	997.2
15°	1308.3	1288.1	1237.6	1165.3	1093.0	1030.8	988.8	966.9	956.8
17.5°	1308.3	1284.7	1224.2	1140.1	1057.7	992.1	945.0	919.8	911.4
20°	1284.7	1257.8	1192.3	1099.8	1012.3	941.7	896.3	871.0	861.0
22.5°	1247.7	1217.5	1146.8	1051.0	958.5	889.5	844.2	820.6	810.5
25°	1199.0	1168.7	1094.7	995.5	903.0	834.0	792.0	770.2	760.0
27.5°	1141.8	1108.1	1034.2	935.0	844.2	778.5	739.9	719.7	711.3
30°	1071.1	1039.2	966.9	869.3	781.9	721.4	686.0	667.6	660.9
32.5°	988.8	961.8	891.2	800.4	718.1	662.6	630.6	615.4	608.8
35°	903.0	877.8	815.5	731.5	657.5	605.4	575.1	565.0	561.6
37.5°	822.3	800.4	739.9	662.6	595.2	549.9	522.9	516.3	512.9
40°	738.2	723.0	667.6	596.9	534.8	494.4	472.5	467.4	467.4
42.5°	662.6	645.8	596.9	533.1	477.6	437.2	422.1	417.0	418.7
45°	593.6	576.7	531.4	472.5	418.7	385.1	373.3	373.3	373.3
47.5°	529.7	514.6	472.5	411.9	368.3	341.3	329.6	329.6	331.3
50°	470.8	460.8	413.6	361.5	322.8	297.7	289.2	287.5	290.9
52.5°	415.3	403.6	361.5	314.5	277.5	257.3	248.8	247.1	248.8
55°	368.3	354.9	317.9	272.4	238.8	218.6	208.6	206.9	210.1
57.5°	322.8	312.8	274.1	233.7	201.8	181.6	173.1	169.9	171.6
60°	280.9	270.7	235.4	196.7	168.2	148.0	136.3	132.9	134.6
62.5°	242.2	233.7	200.1	163.1	134.6	116.1	104.2	95.9	99.3
65°	206.9	198.4	168.2	131.2	105.9	85.7	68.9	62.3	63.8
67.5°	176.5	166.5	137.8	104.2	79.1	57.2	38.7	35.3	35.3
70°	146.3	136.3	111.0	80.8	55.5	30.2	16.8	16.8	16.8
72.5°	117.8	109.3	85.7	60.6	35.3	13.4	6.8	6.8	6.8
75°	90.8	84.0	63.8	42.1	21.9	6.8	5.1	3.4	3.4
77.5°	67.2	60.6	45.5	28.5	13.4	3.4	3.4	3.4	3.4
80°	45.5	40.4	30.2	16.8	6.8	1.7	1.7	1.7	1.7
82.5°	27.0	23.6	16.8	8.5	3.4	1.7	1.7	1.7	1.7
85°	13.4	10.0	6.8	3.4	1.7	1.7	1.7	1.7	1.7
87.5°	3.4	1.7	1.7	1.7	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)