

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: P580342

Luminaire Tested: **HCC4S30D010BZ-HM43040927-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580342
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: HCC4S30D010BZ-HM43040927-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

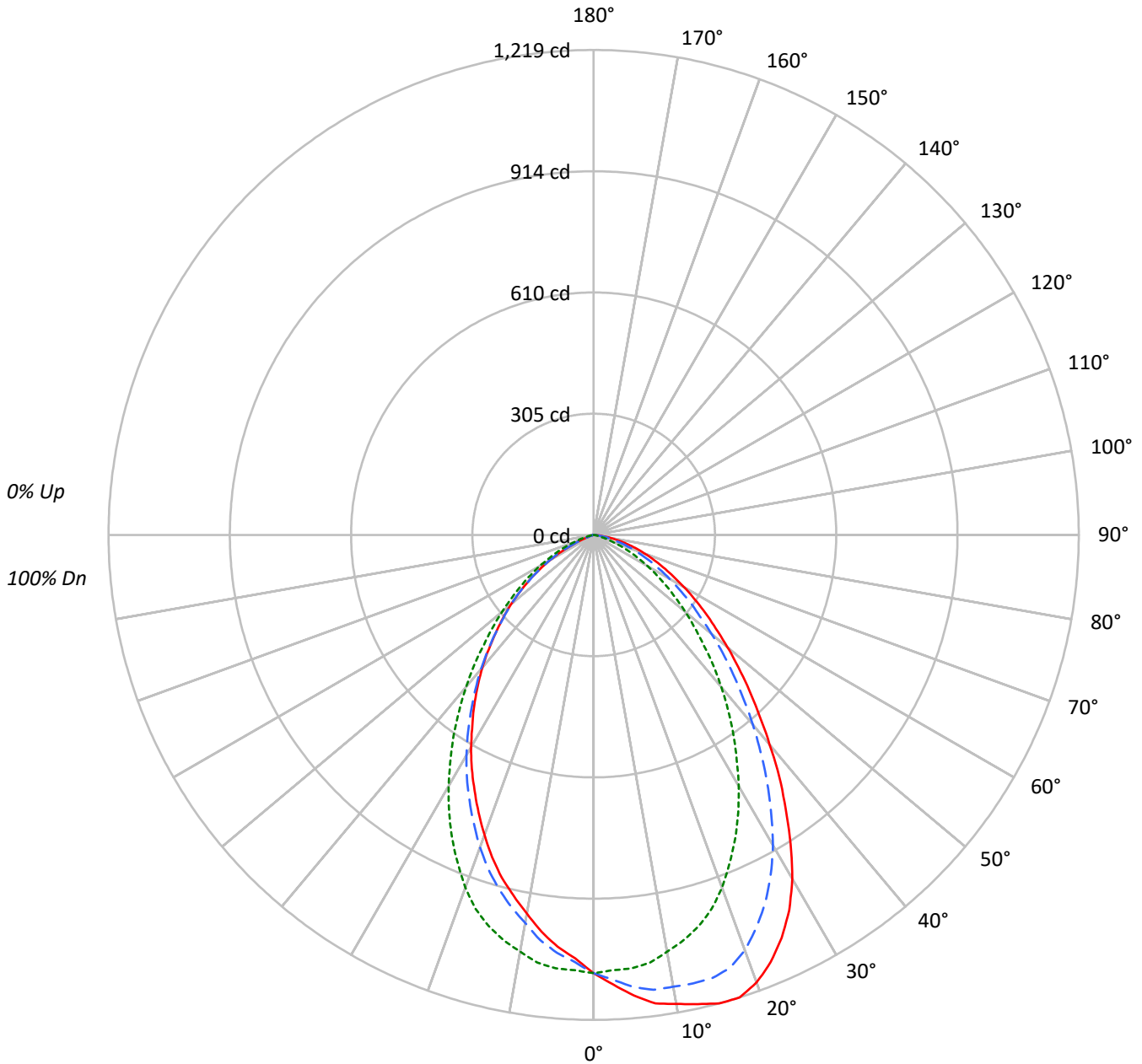
Lumens per Lamp: N/A
Luminaire Lumens: 1902.6 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580342
CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P580342

CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41WWBB

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			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78			78
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69			69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61			61
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55			55
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49			49
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44			44
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40			40
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37			37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34			34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	135865	135865	135865
5°	143949	135406	128621
10°	149922	133239	121078
15°	155662	130059	113854
20°	157120	123806	105298
25°	152047	114512	96384
30°	142157	103773	87707
35°	126696	92244	78797
40°	110763	80218	70123
45°	96481	68065	60687
50°	84183	57721	52022
55°	73782	47826	42106
60°	64559	38657	30910
65°	56242	28807	17395
70°	49155	18645	5662
75°	40318	9722	1525
80°	30047	4475	1137
85°	17690	2264	2264



TEST NUMBER: P580342
 CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	5.5
10°-20°	290.9	15.3
20°-30°	402.3	21.1
30°-40°	404.5	21.3
40°-50°	326.4	17.2
50°-60°	220.7	11.6
60°-70°	112.3	5.9
70°-80°	36.0	1.9
80°-90°	5.5	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°	797.2	41.9
0°-40°	1201.7	63.2
0°-60°	1748.8	91.9
0°-90°	1902.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1102	1102	1102	1102	1102	
5°	1163	1141	1094	1054	1039	112
15°	1219	1153	1018	921	892	343
25°	1117	1020	841	738	708	511
35°	841	760	613	536	523	526
45°	553	495	390	348	348	429
55°	343	296	222	194	196	308
65°	193	157	99	64	60	193
75°	85	60	20	5	3	91
85°	12	6	2	2	2	17
90°	0	0	0	0	0	

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



TEST NUMBER: P580342

CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1101.5	1101.5	1101.5	1101.5	1101.5	1101.5	1101.5	1101.5	1101.5
2.5°	1131.3	1125.0	1118.8	1107.7	1095.2	1082.7	1074.9	1068.6	1065.4
5°	1162.6	1154.7	1140.6	1117.2	1093.6	1071.7	1054.5	1043.5	1038.8
7.5°	1187.7	1176.7	1153.2	1120.2	1084.2	1049.7	1027.8	1012.2	1005.8
10°	1197.0	1184.5	1153.2	1109.3	1063.8	1021.5	990.3	974.6	966.7
12.5°	1208.0	1193.9	1154.7	1099.9	1043.5	993.3	957.3	936.9	929.1
15°	1219.0	1200.2	1153.2	1085.8	1018.5	960.5	921.2	900.9	891.6
17.5°	1219.0	1197.0	1140.6	1062.4	985.5	924.4	880.5	857.1	849.2
20°	1197.0	1172.0	1110.9	1024.7	943.2	877.5	835.1	811.6	802.2
22.5°	1162.6	1134.3	1068.6	979.2	893.0	828.9	786.6	764.6	755.2
25°	1117.2	1089.0	1020.1	927.6	841.4	777.2	737.9	717.6	708.2
27.5°	1063.8	1032.6	963.5	871.2	786.6	725.4	689.4	670.6	662.8
30°	998.1	968.3	900.9	810.0	728.6	672.2	639.2	622.0	615.8
32.5°	921.2	896.2	830.4	745.8	669.0	617.4	587.6	573.5	567.2
35°	841.4	817.9	759.9	681.5	612.6	564.0	535.8	526.4	523.3
37.5°	766.1	745.8	689.4	617.4	554.6	512.3	487.3	481.0	477.9
40°	687.9	673.8	622.0	556.2	498.2	460.7	440.3	435.5	435.5
42.5°	617.4	601.7	556.2	496.7	445.0	407.3	393.2	388.6	390.2
45°	553.1	537.4	495.1	440.3	390.2	358.8	347.9	347.9	347.9
47.5°	493.5	479.4	440.3	383.9	343.1	318.1	307.0	307.0	308.6
50°	438.7	429.3	385.4	336.8	300.8	277.4	269.5	267.9	271.1
52.5°	387.0	376.1	336.8	292.9	258.5	239.7	231.9	230.3	231.9
55°	343.1	330.6	296.1	253.8	222.4	203.7	194.2	192.7	195.8
57.5°	300.8	291.5	255.4	217.8	188.0	169.2	161.4	158.3	159.8
60°	261.7	252.2	219.4	183.3	156.7	137.8	126.9	123.7	125.3
62.5°	225.6	217.8	186.5	151.9	125.3	108.1	97.1	89.3	92.5
65°	192.7	184.9	156.7	122.2	98.7	79.9	64.2	58.0	59.6
67.5°	164.5	155.1	128.5	97.1	73.7	53.2	36.0	32.9	32.9
70°	136.3	126.9	103.4	75.2	51.7	28.2	15.7	15.7	15.7
72.5°	109.6	101.9	79.9	56.4	32.9	12.5	6.3	6.3	6.3
75°	84.6	78.4	59.6	39.1	20.4	6.3	4.7	3.2	3.2
77.5°	62.7	56.4	42.3	26.6	12.5	3.2	3.2	3.2	3.2
80°	42.3	37.6	28.2	15.7	6.3	1.6	1.6	1.6	1.6
82.5°	25.0	21.9	15.7	7.8	3.2	1.6	1.6	1.6	1.6
85°	12.5	9.4	6.3	3.2	1.6	1.6	1.6	1.6	1.6
87.5°	3.2	1.6	1.6	1.6	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)