

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: P580340

Luminaire Tested: **HCC4S30D010SL-HM43040927-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010SL-HM43040927-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

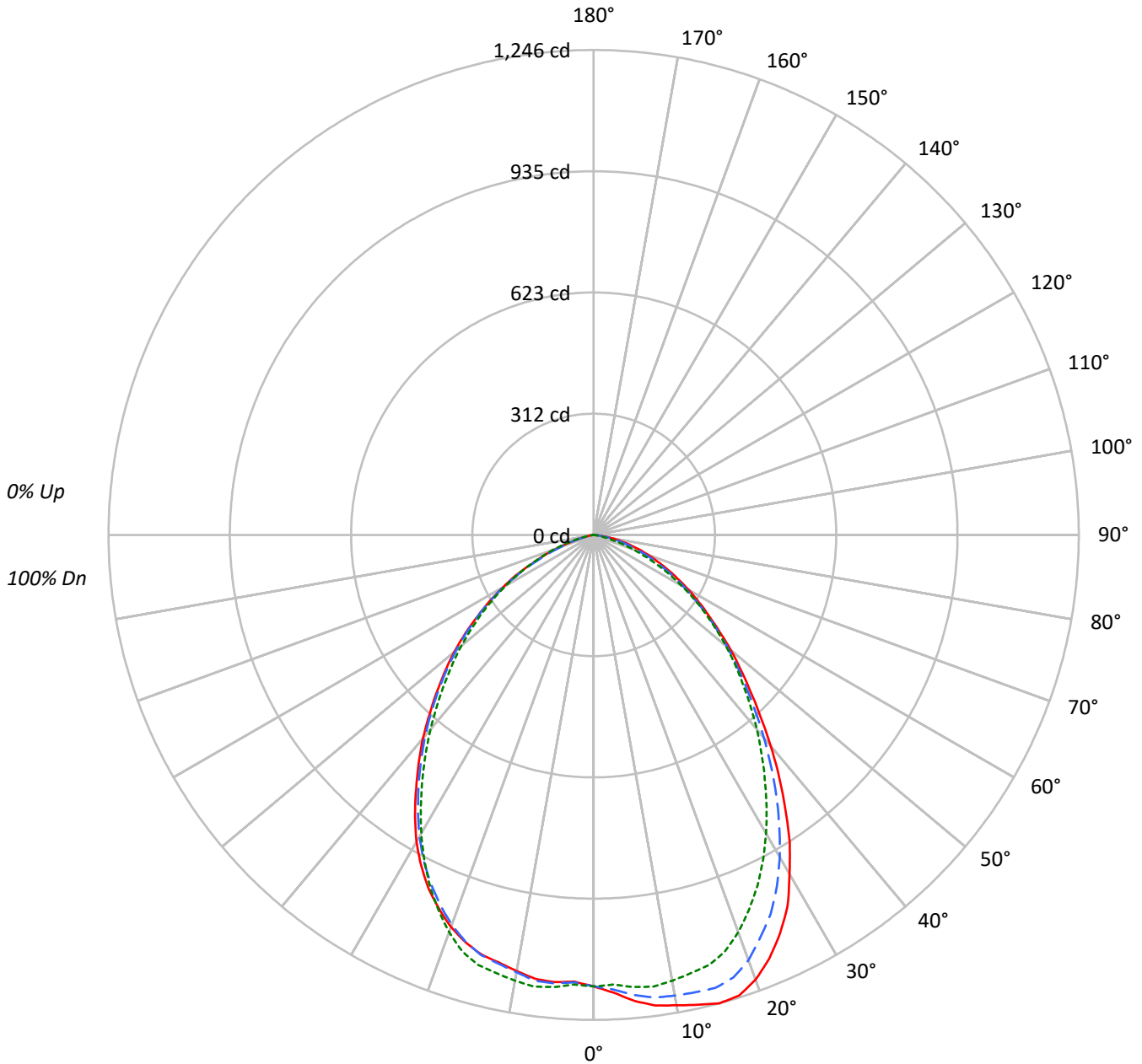
Lumens per Lamp: N/A
Luminaire Lumens: 2416.7 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580340
CATALOG NUMBER: HCC4S30D010SL-HM43040927-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P580340

CATALOG NUMBER: HCC4S30D010SL-HM43040927-41RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	143044	143044	143044
5°	148828	144370	142810
10°	153680	145651	142495
15°	159097	146085	142484
20°	159627	142550	140699
25°	153994	135430	136505
30°	143296	126119	129680
35°	129090	115402	119649
40°	113806	104983	109781
45°	99499	94580	99237
50°	88117	85104	89613
55°	77503	75159	78191
60°	69197	64164	66113
65°	60853	52155	51222
70°	53122	38444	35018
75°	44083	23161	18634
80°	33385	8879	5540
85°	15426	2264	2264



TEST NUMBER: P580340

CATALOG NUMBER: HCC4S30D010SL-HM43040927-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	4.6
10°-20°	326.4	13.5
20°-30°	472.7	19.6
30°-40°	498.8	20.6
40°-50°	431.6	17.9
50°-60°	319.8	13.2
60°-70°	184.3	7.6
70°-80°	64.4	2.7
80°-90°	6.8	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°	911.0	37.7
0°-40°	1409.8	58.3
0°-60°	2161.2	89.4
0°-90°	2416.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1160	1160	1160	1160	1160	
5°	1202	1186	1166	1156	1153	115
15°	1246	1205	1144	1117	1116	350
25°	1132	1075	995	989	1003	518
35°	857	818	766	784	795	535
45°	570	555	542	563	569	443
55°	360	353	350	362	364	325
65°	208	196	179	169	176	208
75°	92	78	49	39	39	99
85°	11	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: P580340

CATALOG NUMBER: HCC4S30D010SL-HM43040927-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7
2.5°	1177.0	1173.8	1169.1	1162.9	1156.5	1151.8	1150.3	1148.8	1148.8
5°	1202.0	1195.7	1186.3	1173.8	1166.0	1161.3	1156.5	1153.4	1153.4
7.5°	1219.3	1212.9	1198.8	1181.6	1170.6	1161.3	1155.0	1150.3	1150.3
10°	1227.0	1219.3	1202.0	1180.1	1162.9	1150.3	1140.9	1137.7	1137.7
12.5°	1236.5	1227.0	1203.6	1175.4	1153.4	1137.7	1128.3	1125.2	1125.2
15°	1245.9	1234.9	1205.2	1172.2	1144.0	1125.2	1117.4	1115.8	1115.8
17.5°	1241.1	1227.0	1192.6	1153.4	1122.0	1103.3	1095.4	1095.4	1097.0
20°	1216.1	1202.0	1162.9	1119.0	1086.0	1071.9	1065.6	1068.8	1071.9
22.5°	1178.5	1161.3	1119.0	1076.7	1042.2	1029.6	1029.6	1034.3	1039.0
25°	1131.5	1115.8	1075.1	1028.1	995.1	985.8	988.9	996.7	1003.0
27.5°	1078.1	1061.0	1018.7	974.8	941.9	937.1	945.0	956.0	959.1
30°	1006.1	992.0	956.0	913.7	885.5	883.9	894.8	902.6	910.5
32.5°	937.1	921.5	887.1	846.2	825.9	827.5	840.0	849.4	854.1
35°	857.3	843.2	818.0	785.1	766.4	769.5	783.6	793.0	794.6
37.5°	782.0	772.6	747.5	722.5	708.4	714.6	727.1	738.2	738.2
40°	706.8	698.9	680.2	659.8	652.0	659.8	672.3	681.8	681.8
42.5°	634.7	630.0	614.3	600.2	595.5	606.5	617.5	625.3	623.7
45°	570.4	565.7	554.8	543.8	542.2	553.2	562.6	567.3	568.9
47.5°	512.5	509.3	499.9	492.0	492.0	503.1	510.9	515.6	517.2
50°	459.2	456.1	448.2	442.0	443.5	454.5	460.8	465.4	467.0
52.5°	405.9	404.3	398.1	390.2	394.9	402.8	410.6	413.8	415.3
55°	360.4	360.4	352.6	346.3	349.5	357.4	362.0	363.6	363.6
57.5°	319.7	318.1	308.7	302.4	304.0	311.9	315.1	316.5	316.5
60°	280.5	279.0	269.6	260.1	260.1	264.9	266.4	268.0	268.0
62.5°	242.9	241.4	230.3	222.6	219.4	217.8	217.8	221.0	227.3
65°	208.5	206.9	195.9	183.3	178.7	173.9	169.2	172.4	175.5
67.5°	177.1	173.9	163.0	152.1	141.0	133.2	125.3	130.1	136.4
70°	147.3	144.2	131.6	119.1	106.6	94.1	87.8	94.1	97.1
72.5°	119.1	116.0	103.4	90.9	75.2	62.7	61.1	62.7	64.3
75°	92.5	90.9	78.4	64.3	48.6	39.1	39.1	39.1	39.1
77.5°	68.9	65.9	53.2	40.7	28.2	22.0	20.4	20.4	20.4
80°	47.0	43.9	32.9	23.5	12.5	9.4	9.4	7.8	7.8
82.5°	26.6	25.0	17.3	9.4	4.7	3.2	3.2	3.2	3.2
85°	10.9	9.4	6.3	3.2	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	0.0	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)