

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: P580358

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580358
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: HCC4S30D010MW-HM43040930-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

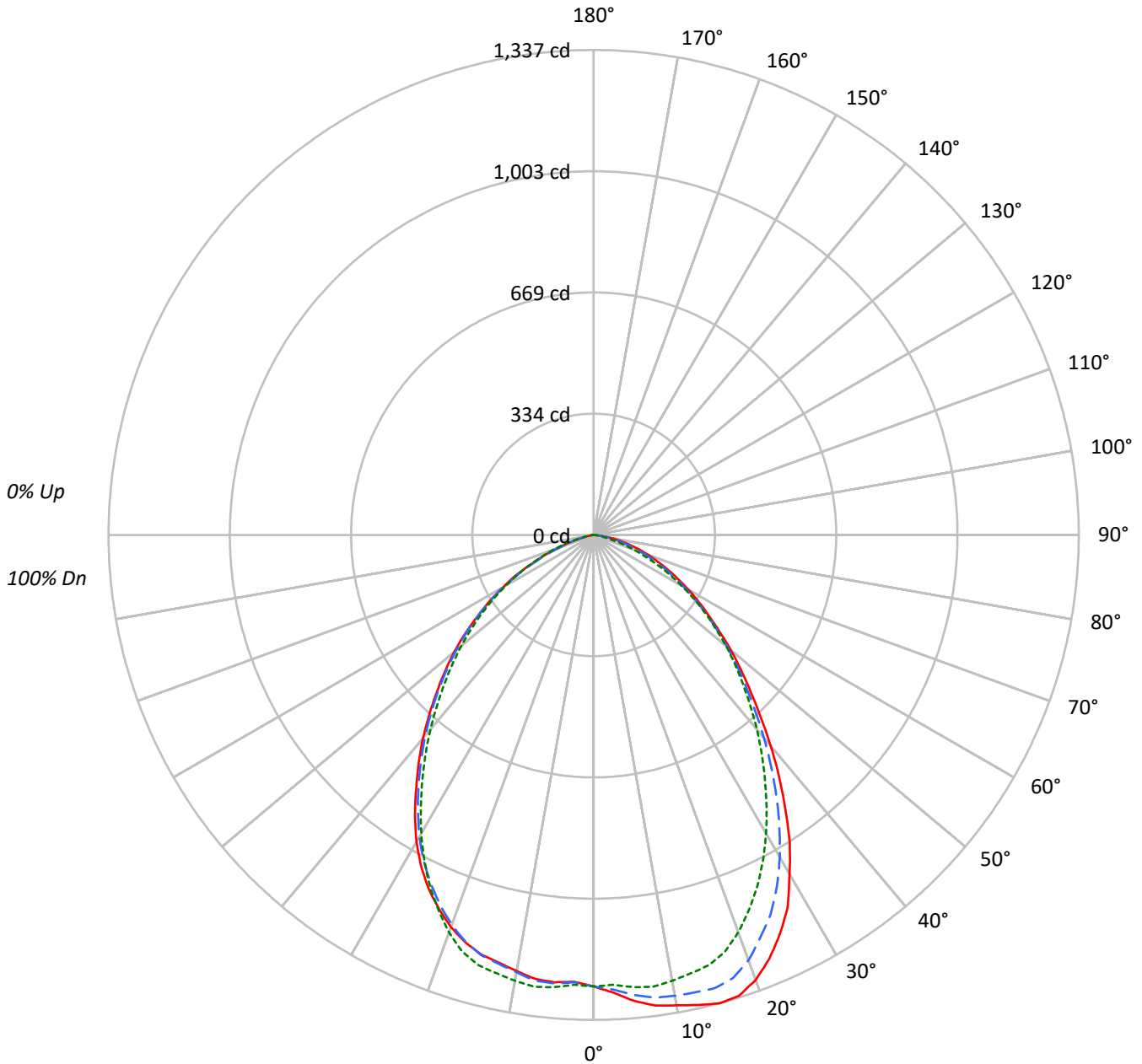
Lumens per Lamp: N/A
Luminaire Lumens: 2593.6 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580358
CATALOG NUMBER: HCC4S30D010MW-HM43040930-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P580358

CATALOG NUMBER: HCC4S30D010MW-HM43040930-41RWWC

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								
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°	153516	153516	153516
5°	159736	154944	153273
10°	164940	156310	152941
15°	170743	156786	152917
20°	171323	152999	151003
25°	165276	145351	146508
30°	153793	135349	139180
35°	138531	123835	128412
40°	122147	112663	117800
45°	106808	101505	106511
50°	94564	91340	96176
55°	83180	80664	83911
60°	74279	68876	70948
65°	65289	55979	54987
70°	57017	41257	37579
75°	47323	24829	20064
80°	35800	9518	6038
85°	16558	2406	2406



TEST NUMBER: P580358
 CATALOG NUMBER: HCC4S30D010MW-HM43040930-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	4.6
10°-20°	350.3	13.5
20°-30°	507.4	19.6
30°-40°	535.3	20.6
40°-50°	463.3	17.9
50°-60°	343.2	13.2
60°-70°	197.8	7.6
70°-80°	69.1	2.7
80°-90°	7.3	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°	977.7	37.7
0°-40°	1513.0	58.3
0°-60°	2319.4	89.4
0°-90°	2593.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1245	1245	1245	1245	1245	
5°	1290	1273	1251	1241	1238	124
15°	1337	1293	1228	1199	1198	376
25°	1214	1154	1068	1061	1076	556
35°	920	878	822	841	853	575
45°	612	595	582	604	611	475
55°	387	378	375	388	390	349
65°	224	210	192	182	188	223
75°	99	84	52	42	42	107
85°	12	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: P580358

CATALOG NUMBER: HCC4S30D010MW-HM43040930-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6
2.5°	1263.1	1259.8	1254.7	1248.0	1241.3	1236.2	1234.6	1232.9	1232.9
5°	1290.1	1283.3	1273.2	1259.8	1251.4	1246.3	1241.3	1237.9	1237.9
7.5°	1308.6	1301.8	1286.7	1268.2	1256.4	1246.3	1239.6	1234.6	1234.6
10°	1316.9	1308.6	1290.1	1266.5	1248.0	1234.6	1224.4	1221.1	1221.1
12.5°	1327.1	1316.9	1291.7	1261.4	1237.9	1221.1	1211.0	1207.6	1207.6
15°	1337.1	1325.4	1293.4	1258.1	1227.8	1207.6	1199.2	1197.5	1197.5
17.5°	1332.1	1316.9	1279.9	1237.9	1204.3	1184.1	1175.7	1175.7	1177.4
20°	1305.2	1290.1	1248.0	1200.9	1165.6	1150.4	1143.7	1147.1	1150.4
22.5°	1264.8	1246.3	1200.9	1155.5	1118.5	1105.0	1105.0	1110.1	1115.1
25°	1214.4	1197.5	1153.8	1103.3	1068.0	1058.0	1061.3	1069.7	1076.5
27.5°	1157.2	1138.7	1093.3	1046.2	1010.8	1005.8	1014.2	1026.0	1029.3
30°	1079.8	1064.7	1026.0	980.6	950.3	948.6	960.4	968.8	977.2
32.5°	1005.8	989.0	952.0	908.3	886.4	888.1	901.5	911.6	916.6
35°	920.0	904.9	877.9	842.6	822.4	825.8	840.9	851.1	852.8
37.5°	839.2	829.2	802.2	775.4	760.3	766.9	780.5	792.2	792.2
40°	758.6	750.1	729.9	708.0	699.7	708.0	721.6	731.6	731.6
42.5°	681.2	676.1	659.3	644.2	639.1	650.9	662.7	671.0	669.4
45°	612.3	607.2	595.4	583.6	581.9	593.8	603.8	608.9	610.6
47.5°	550.0	546.6	536.6	528.1	528.1	539.9	548.3	553.4	555.1
50°	492.8	489.4	481.0	474.3	476.0	487.7	494.5	499.6	501.2
52.5°	435.6	433.9	427.2	418.8	423.9	432.2	440.7	444.0	445.7
55°	386.8	386.8	378.4	371.7	375.1	383.5	388.5	390.2	390.2
57.5°	343.1	341.4	331.3	324.6	326.3	334.7	338.1	339.8	339.8
60°	301.1	299.4	289.3	279.2	279.2	284.3	285.9	287.6	287.6
62.5°	260.7	259.0	247.3	238.8	235.5	233.8	233.8	237.1	243.9
65°	223.7	222.0	210.3	196.8	191.8	186.7	181.6	185.0	188.4
67.5°	190.1	186.7	175.0	163.1	151.4	142.9	134.6	139.6	146.3
70°	158.1	154.8	141.3	127.8	114.4	101.0	94.2	101.0	104.2
72.5°	127.8	124.4	111.0	97.6	80.8	67.2	65.6	67.2	68.9
75°	99.3	97.6	84.1	68.9	52.1	42.1	42.1	42.1	42.1
77.5°	74.0	70.6	57.2	43.8	30.2	23.6	21.9	21.9	21.9
80°	50.4	47.2	35.3	25.3	13.4	10.0	10.0	8.5	8.5
82.5°	28.5	27.0	18.5	10.0	5.1	3.4	3.4	3.4	3.4
85°	11.7	10.0	6.8	3.4	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	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)