

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: P580268

Luminaire Tested: **HCC4S30D010SL-HM43040827-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580268  
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-HM43040827-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

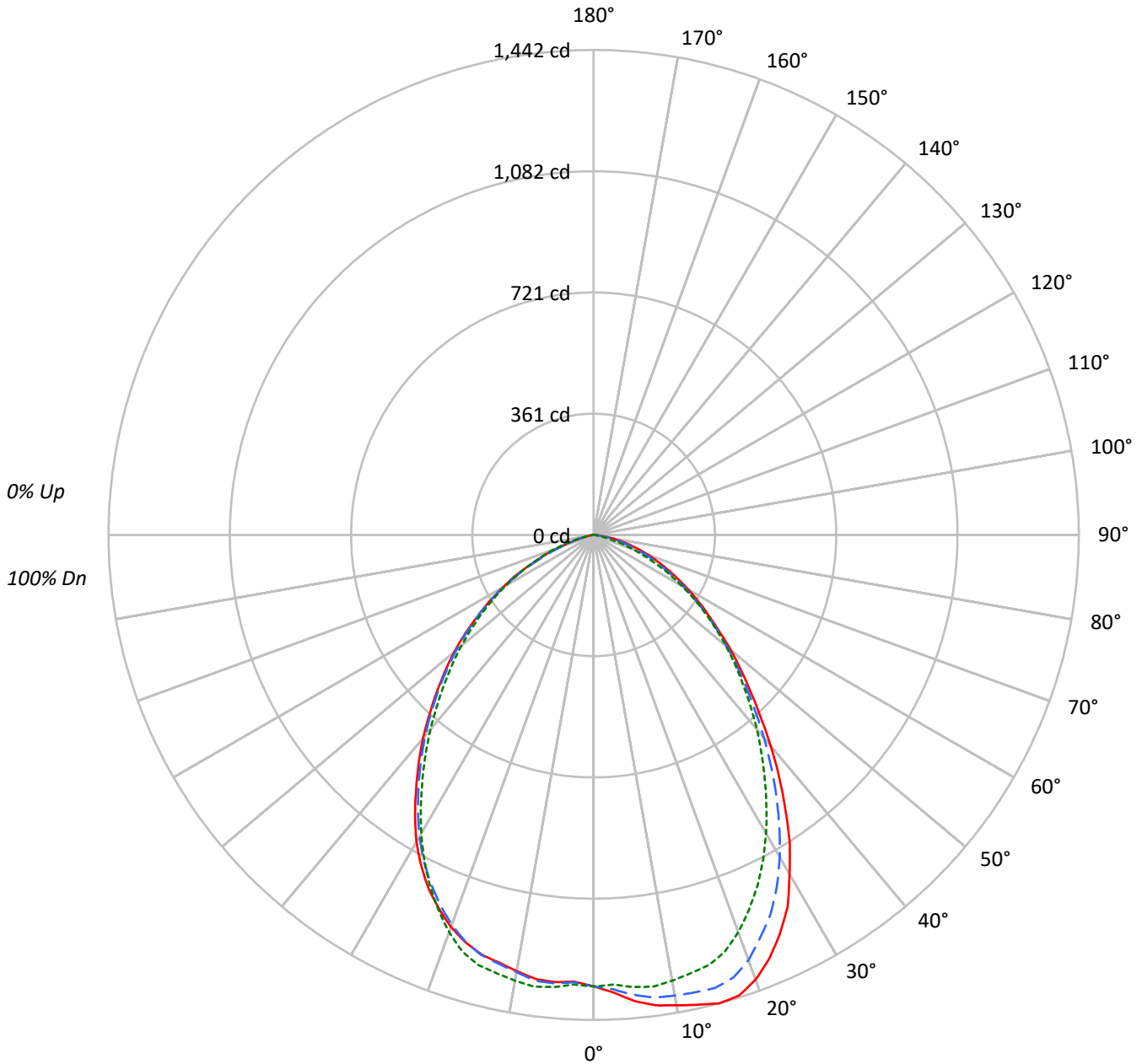
Lumens per Lamp: N/A  
Luminaire Lumens: 2796.6 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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### Luminous Intensity Polar Plot





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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	165542	165542	165542
5°	172229	167066	165271
10°	177853	168547	164902
15°	184113	169058	164882
20°	184725	164970	162830
25°	178205	156729	157968
30°	165828	145945	150076
35°	149388	133532	138441
40°	131695	121471	127026
45°	115146	109459	114832
50°	101971	98479	103698
55°	89696	86965	90470
60°	80076	74279	76499
65°	70397	60357	59306
70°	61453	44467	40572
75°	50993	26783	21589
80°	38641	10371	6393
85°	17973	2547	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.4	4.6
10°-20°	377.8	13.5
20°-30°	547.1	19.6
30°-40°	577.2	20.6
40°-50°	499.5	17.9
50°-60°	370.0	13.2
60°-70°	213.3	7.6
70°-80°	74.5	2.7
80°-90°	7.8	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°	1054.3	37.7
0°-40°	1631.4	58.3
0°-60°	2501.0	89.4
0°-90°	2796.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1342	1342	1342	1342	1342	
5°	1391	1373	1349	1338	1335	134
15°	1442	1395	1324	1293	1291	406
25°	1309	1244	1152	1144	1161	599
35°	992	947	887	907	919	620
45°	660	642	628	651	658	512
55°	417	408	404	419	421	376
65°	241	227	207	196	203	241
75°	107	91	56	45	45	115
85°	13	7	2	2	2	20
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1
2.5°	1361.9	1358.3	1352.9	1345.7	1338.4	1333.0	1331.2	1329.3	1329.3
5°	1391.0	1383.7	1372.9	1358.3	1349.3	1343.9	1338.4	1334.8	1334.8
7.5°	1411.0	1403.7	1387.4	1367.5	1354.7	1343.9	1336.6	1331.2	1331.2
10°	1420.0	1411.0	1391.0	1365.7	1345.7	1331.2	1320.3	1316.6	1316.6
12.5°	1430.9	1420.0	1392.9	1360.1	1334.8	1316.6	1305.8	1302.2	1302.2
15°	1441.8	1429.1	1394.7	1356.5	1323.9	1302.2	1293.0	1291.2	1291.2
17.5°	1436.4	1420.0	1380.1	1334.8	1298.6	1276.8	1267.6	1267.6	1269.5
20°	1407.3	1391.0	1345.7	1294.9	1256.8	1240.5	1233.2	1236.9	1240.5
22.5°	1363.8	1343.9	1294.9	1245.9	1206.1	1191.5	1191.5	1196.9	1202.4
25°	1309.4	1291.2	1244.1	1189.7	1151.6	1140.7	1144.4	1153.4	1160.7
27.5°	1247.8	1227.8	1178.9	1128.0	1090.0	1084.6	1093.6	1106.2	1110.0
30°	1164.3	1148.0	1106.2	1057.3	1024.7	1022.9	1035.5	1044.6	1053.7
32.5°	1084.6	1066.4	1026.5	979.3	955.8	957.6	972.1	982.9	988.4
35°	992.1	975.7	946.7	908.6	886.8	890.4	906.8	917.6	919.4
37.5°	905.0	894.1	865.1	836.1	819.7	826.9	841.5	854.2	854.2
40°	817.9	808.9	787.1	763.5	754.4	763.5	778.0	788.9	788.9
42.5°	734.6	729.0	710.9	694.6	689.2	701.8	714.6	723.6	721.8
45°	660.1	654.7	642.1	629.3	627.5	640.1	651.1	656.5	658.3
47.5°	593.0	589.4	578.6	569.4	569.4	582.2	591.2	596.7	598.5
50°	531.4	527.8	518.7	511.4	513.2	526.0	533.2	538.6	540.4
52.5°	469.7	467.9	460.7	451.5	457.1	466.1	475.1	478.8	480.6
55°	417.1	417.1	408.1	400.8	404.4	413.5	418.9	420.7	420.7
57.5°	370.0	368.2	357.2	350.0	351.8	360.8	364.6	366.4	366.4
60°	324.6	322.8	311.9	301.1	301.1	306.5	308.3	310.1	310.1
62.5°	281.1	279.3	266.5	257.5	253.9	252.1	252.1	255.7	262.9
65°	241.2	239.4	226.7	212.2	206.8	201.3	195.8	199.5	203.2
67.5°	205.0	201.3	188.6	176.0	163.2	154.2	145.1	150.5	157.8
70°	170.4	166.8	152.4	137.8	123.3	108.9	101.5	108.9	112.5
72.5°	137.8	134.2	119.7	105.2	87.1	72.5	70.7	72.5	74.3
75°	107.0	105.2	90.7	74.3	56.2	45.3	45.3	45.3	45.3
77.5°	79.7	76.1	61.7	47.2	32.6	25.4	23.6	23.6	23.6
80°	54.4	50.8	38.1	27.2	14.6	10.8	10.8	9.0	9.0
82.5°	30.8	29.0	20.0	10.8	5.4	3.6	3.6	3.6	3.6
85°	12.7	10.8	7.2	3.6	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	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

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Scaled Data Report



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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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