

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: P580216

Luminaire Tested: **HCC4S25D010BZ-HM40525930-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580216  
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: HCC4S25D010BZ-HM40525930-41WWBB  
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**

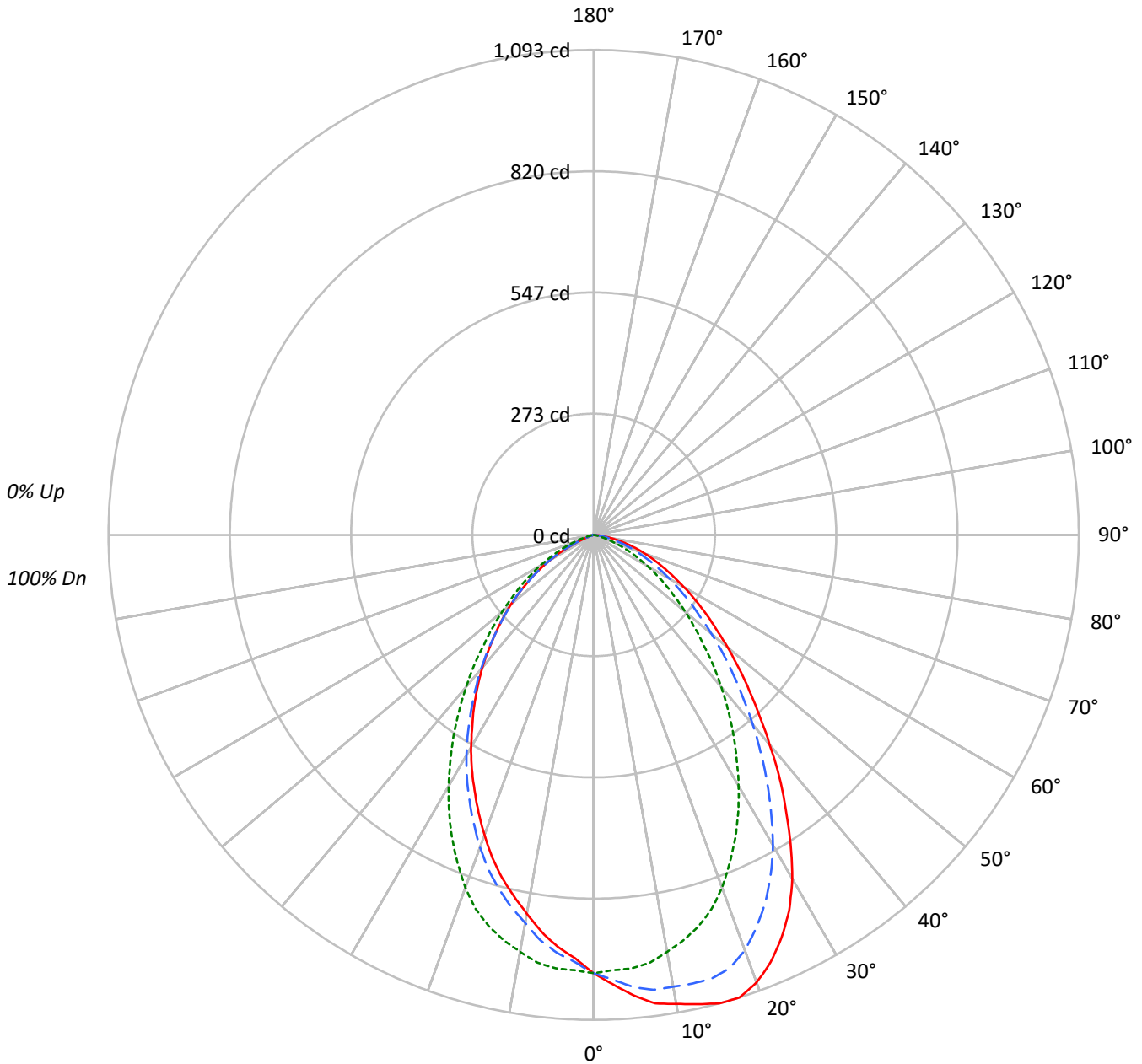
Lumens per Lamp: N/A  
Luminaire Lumens: 1705.9 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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	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°	121816	121816	121816
5°	129067	121415	115323
10°	134429	119474	108565
15°	139573	116600	102068
20°	140883	111008	94417
25°	136315	102671	86435
30°	127472	93033	78634
35°	113595	82712	70651
40°	99315	71926	62877
45°	86521	61018	54389
50°	75471	51753	46649
55°	66170	42902	37762
60°	57874	34635	27703
65°	50434	25830	15585
70°	44106	16734	5049
75°	36172	8721	1334
80°	26921	3978	994
85°	15992	1981	1981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	5.5
10°-20°	260.9	15.3
20°-30°	360.7	21.1
30°-40°	362.7	21.3
40°-50°	292.7	17.2
50°-60°	197.9	11.6
60°-70°	100.7	5.9
70°-80°	32.2	1.9
80°-90°	4.9	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°	714.8	41.9
0°-40°	1077.5	63.2
0°-60°	1568.0	91.9
0°-90°	1705.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	988	988	988	988	988	
5°	1042	1023	981	946	931	100
15°	1093	1034	913	826	799	308
25°	1002	915	754	662	635	458
35°	754	681	549	480	469	471
45°	496	444	350	312	312	384
55°	308	266	200	174	176	276
65°	173	140	88	58	53	173
75°	76	53	18	4	3	82
85°	11	6	1	1	1	15
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°	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6
2.5°	1014.3	1008.8	1003.1	993.3	982.0	970.8	963.7	958.2	955.4
5°	1042.4	1035.4	1022.8	1001.6	980.6	960.9	945.5	935.6	931.4
7.5°	1064.9	1055.1	1034.1	1004.5	972.2	941.2	921.6	907.6	902.0
10°	1073.3	1062.1	1034.1	994.6	953.9	916.0	887.8	873.8	866.8
12.5°	1083.2	1070.5	1035.4	986.2	935.6	890.7	858.4	840.1	833.1
15°	1093.0	1076.2	1034.1	973.5	913.1	861.2	826.1	807.8	799.3
17.5°	1093.0	1073.3	1022.8	952.5	883.7	828.9	789.5	768.5	761.4
20°	1073.3	1050.9	996.1	918.8	845.7	786.7	748.8	727.8	719.3
22.5°	1042.4	1017.1	958.2	878.0	800.8	743.2	705.3	685.5	677.2
25°	1001.6	976.4	914.6	831.7	754.4	696.8	661.7	643.4	635.1
27.5°	953.9	925.8	864.0	781.2	705.3	650.4	618.1	601.3	594.3
30°	895.0	868.2	807.8	726.3	653.2	602.7	573.2	557.7	552.1
32.5°	826.1	803.6	744.6	668.7	599.8	553.5	526.8	514.1	508.6
35°	754.4	733.4	681.4	611.1	549.3	505.8	480.5	472.0	469.2
37.5°	687.0	668.7	618.1	553.5	497.3	459.4	436.9	431.3	428.5
40°	616.8	604.1	557.7	498.7	446.7	413.0	394.8	390.5	390.5
42.5°	553.5	539.4	498.7	445.4	399.0	365.2	352.6	348.4	349.8
45°	496.0	481.9	443.9	394.8	349.8	321.8	311.8	311.8	311.8
47.5°	442.6	429.9	394.8	344.2	307.7	285.2	275.4	275.4	276.7
50°	393.3	385.0	345.6	302.0	269.7	248.7	241.6	240.3	243.1
52.5°	347.1	337.1	302.0	262.7	231.8	215.0	208.0	206.5	208.0
55°	307.7	296.5	265.5	227.6	199.5	182.7	174.2	172.8	175.6
57.5°	269.7	261.4	229.0	195.3	168.6	151.7	144.7	141.9	143.3
60°	234.6	226.1	196.7	164.4	140.4	123.6	113.8	111.0	112.3
62.5°	202.3	195.3	167.2	136.3	112.3	97.0	87.2	80.0	82.9
65°	172.8	165.7	140.4	109.6	88.5	71.7	57.6	51.9	53.4
67.5°	147.6	139.1	115.2	87.2	66.0	47.8	32.3	29.5	29.5
70°	122.3	113.8	92.7	67.4	46.4	25.3	14.0	14.0	14.0
72.5°	98.3	91.3	71.7	50.6	29.5	11.3	5.6	5.6	5.6
75°	75.9	70.2	53.4	35.1	18.3	5.6	4.2	2.8	2.8
77.5°	56.2	50.6	37.9	23.9	11.3	2.8	2.8	2.8	2.8
80°	37.9	33.8	25.3	14.0	5.6	1.4	1.4	1.4	1.4
82.5°	22.5	19.6	14.0	7.0	2.8	1.4	1.4	1.4	1.4
85°	11.3	8.5	5.6	2.8	1.4	1.4	1.4	1.4	1.4
87.5°	2.8	1.4	1.4	1.4	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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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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