

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: P580232

Luminaire Tested: **HCC4S25D010BZ-HM40525935-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580232  
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: HCC4S25D010BZ-HM40525935-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

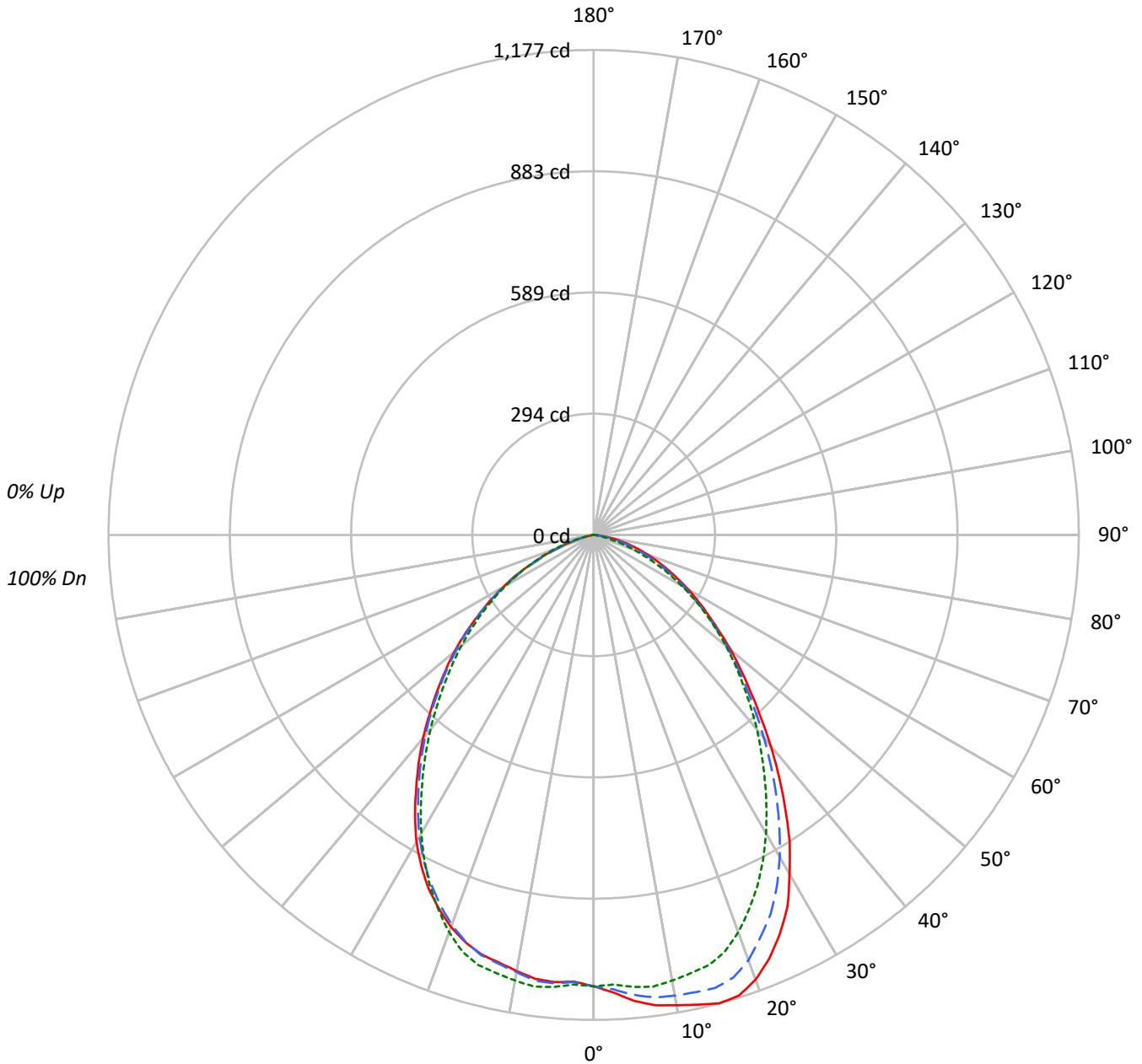
Lumens per Lamp: N/A  
Luminaire Lumens: 2282.5 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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	61	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°	135113	135113	135113
5°	140569	136347	134886
10°	145150	137560	134592
15°	150274	137989	134580
20°	150767	134648	132902
25°	145447	127917	128925
30°	135349	119112	122487
35°	121907	108988	112993
40°	107494	99154	103678
45°	93987	89329	93725
50°	83204	80383	84643
55°	73202	70987	73847
60°	65373	60612	62438
65°	57467	49266	48361
70°	50165	36316	33107
75°	41652	21827	17633
80°	31538	8453	5327
85°	14718	2123	2123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	4.6
10°-20°	308.3	13.5
20°-30°	446.5	19.6
30°-40°	471.1	20.6
40°-50°	407.7	17.9
50°-60°	302.0	13.2
60°-70°	174.1	7.6
70°-80°	60.8	2.7
80°-90°	6.4	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°	860.5	37.7
0°-40°	1331.5	58.3
0°-60°	2041.2	89.4
0°-90°	2282.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1095	1095	1095	1095	1095	
5°	1135	1120	1101	1092	1089	109
15°	1177	1138	1081	1055	1054	331
25°	1069	1015	940	934	947	489
35°	810	773	724	740	750	506
45°	539	524	512	531	537	418
55°	340	333	330	342	343	307
65°	197	185	169	160	166	197
75°	87	74	46	37	37	94
85°	10	6	2	2	2	16
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°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4
2.5°	1111.6	1108.7	1104.2	1098.3	1092.3	1087.9	1086.4	1085.0	1085.0
5°	1135.3	1129.3	1120.5	1108.7	1101.2	1096.8	1092.3	1089.4	1089.4
7.5°	1151.6	1145.6	1132.3	1116.0	1105.6	1096.8	1090.8	1086.4	1086.4
10°	1158.9	1151.6	1135.3	1114.5	1098.3	1086.4	1077.5	1074.6	1074.6
12.5°	1167.8	1158.9	1136.8	1110.1	1089.4	1074.6	1065.8	1062.7	1062.7
15°	1176.8	1166.4	1138.3	1107.2	1080.6	1062.7	1055.4	1053.9	1053.9
17.5°	1172.2	1158.9	1126.4	1089.4	1059.8	1042.1	1034.6	1034.6	1036.1
20°	1148.6	1135.3	1098.3	1056.9	1025.8	1012.5	1006.5	1009.4	1012.5
22.5°	1113.1	1096.8	1056.9	1016.9	984.3	972.5	972.5	976.9	981.3
25°	1068.7	1053.9	1015.4	970.9	939.9	931.0	934.0	941.4	947.3
27.5°	1018.4	1002.1	962.1	920.7	889.5	885.1	892.6	902.9	905.9
30°	950.3	937.0	902.9	862.9	836.3	834.8	845.2	852.6	860.0
32.5°	885.1	870.3	837.8	799.3	780.0	781.5	793.3	802.3	806.7
35°	809.6	796.3	772.7	741.5	723.8	726.7	740.1	749.0	750.4
37.5°	738.6	729.7	706.1	682.4	669.0	674.9	686.8	697.2	697.2
40°	667.6	660.1	642.4	623.1	615.8	623.1	634.9	643.9	643.9
42.5°	599.5	595.0	580.2	566.9	562.5	572.9	583.2	590.6	589.1
45°	538.8	534.4	524.0	513.6	512.1	522.5	531.4	535.8	537.3
47.5°	484.0	481.1	472.1	464.8	464.8	475.1	482.5	486.9	488.4
50°	433.6	430.7	423.4	417.4	418.9	429.2	435.1	439.6	441.1
52.5°	383.4	381.8	376.0	368.5	373.0	380.4	387.8	390.7	392.2
55°	340.4	340.4	333.1	327.1	330.1	337.5	342.0	343.4	343.4
57.5°	302.0	300.4	291.6	285.6	287.1	294.6	297.5	299.0	299.0
60°	265.0	263.5	254.6	245.7	245.7	250.2	251.7	253.1	253.1
62.5°	229.4	227.9	217.6	210.2	207.2	205.7	205.7	208.8	214.6
65°	196.9	195.4	185.0	173.2	168.8	164.3	159.9	162.8	165.7
67.5°	167.2	164.3	153.9	143.6	133.2	125.8	118.4	122.8	128.8
70°	139.1	136.2	124.3	112.4	100.7	88.9	82.9	88.9	91.8
72.5°	112.4	109.5	97.7	85.8	71.0	59.2	57.7	59.2	60.7
75°	87.4	85.8	74.1	60.7	45.8	37.0	37.0	37.0	37.0
77.5°	65.1	62.2	50.4	38.5	26.6	20.8	19.2	19.2	19.2
80°	44.4	41.4	31.0	22.2	11.9	8.9	8.9	7.5	7.5
82.5°	25.2	23.7	16.3	8.9	4.4	2.9	2.9	2.9	2.9
85°	10.4	8.9	5.9	2.9	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	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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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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