

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: P580125

Luminaire Tested: **HCC4W25D010BZ-HM40525827-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010BZ-HM40525827-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

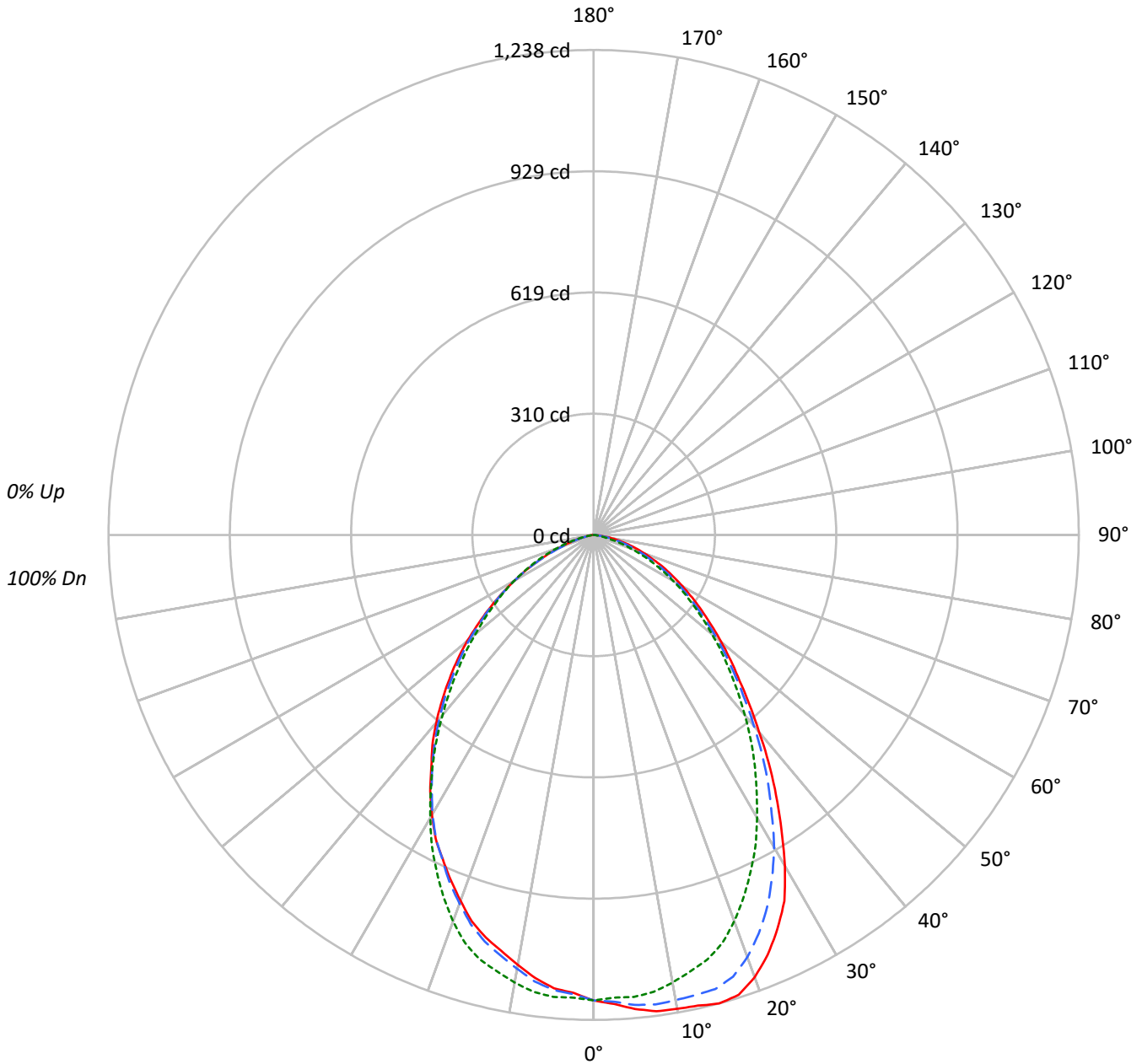
Lumens per Lamp: N/A  
Luminaire Lumens: 2264.7 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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								
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	146559	146559	146559
5°	150400	146574	143826
10°	153805	145313	139564
15°	158140	143250	135895
20°	157711	137746	130382
25°	151054	128965	124134
30°	138966	118770	117517
35°	122239	107798	108687
40°	105772	96497	100522
45°	91911	85736	90882
50°	81573	75625	80729
55°	72385	66320	69202
60°	64460	57553	57553
65°	57292	47807	44801
70°	49516	36208	31917
75°	41462	23876	19682
80°	31467	11578	10513
85°	16841	4104	4104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	5.0
10°-20°	319.0	14.1
20°-30°	449.9	19.9
30°-40°	464.8	20.5
40°-50°	394.0	17.4
50°-60°	286.7	12.7
60°-70°	167.5	7.4
70°-80°	62.2	2.7
80°-90°	8.1	0.4
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°	881.4	38.9
0°-40°	1346.2	59.4
0°-60°	2026.8	89.5
0°-90°	2264.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1188	1188	1188	1188	1188	
5°	1215	1204	1184	1166	1162	116
15°	1238	1200	1122	1074	1064	348
25°	1110	1048	948	914	912	508
35°	812	776	716	717	722	507
45°	527	512	492	509	521	410
55°	337	320	308	319	322	303
65°	196	180	164	154	154	195
75°	87	72	50	40	41	94
85°	12	7	3	3	3	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°	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1198.5	1195.5	1192.6	1188.2	1182.3	1177.9	1173.4	1170.4	1170.4
5°	1214.7	1210.3	1204.4	1194.0	1183.8	1174.8	1166.0	1161.6	1161.6
7.5°	1226.5	1220.7	1208.8	1194.0	1176.4	1163.1	1149.8	1143.9	1141.0
10°	1228.0	1222.1	1205.9	1183.8	1160.2	1139.5	1124.7	1115.9	1114.3
12.5°	1230.9	1223.6	1202.9	1171.9	1141.0	1115.9	1099.6	1090.7	1087.8
15°	1238.4	1228.0	1200.0	1160.2	1121.8	1092.2	1074.5	1067.1	1064.2
17.5°	1230.9	1216.2	1182.3	1135.0	1092.2	1059.8	1042.1	1034.6	1034.6
20°	1201.5	1186.7	1146.8	1095.1	1049.4	1018.5	1000.7	996.3	993.3
22.5°	1160.2	1143.9	1101.1	1046.5	1000.7	972.6	960.9	955.0	953.4
25°	1109.9	1093.7	1047.9	991.8	947.6	924.0	913.6	913.6	912.1
27.5°	1053.8	1033.1	986.0	937.3	894.4	876.8	872.3	872.3	873.7
30°	975.7	960.9	921.0	873.7	833.9	822.1	822.1	825.1	825.1
32.5°	891.5	881.2	845.7	804.4	773.4	766.0	769.0	774.9	776.4
35°	811.8	800.0	776.4	739.5	715.9	712.9	717.4	721.8	721.8
37.5°	733.5	721.8	705.5	676.0	658.3	659.8	665.7	671.5	676.0
40°	656.9	647.9	636.2	612.5	599.3	605.1	612.5	618.5	624.3
42.5°	588.9	580.1	571.2	553.5	544.6	552.0	560.9	566.8	572.6
45°	526.9	521.0	512.1	497.4	491.5	498.9	509.2	515.2	521.0
47.5°	473.8	470.8	459.1	445.7	442.8	450.1	459.1	466.4	470.8
50°	425.1	420.7	410.3	397.1	394.1	405.9	411.7	416.3	420.7
52.5°	377.9	373.5	361.6	349.8	349.8	358.7	363.1	364.6	369.0
55°	336.6	332.2	320.3	311.4	308.4	315.9	318.8	318.8	321.8
57.5°	298.2	293.8	281.9	271.6	270.1	274.6	274.6	274.6	276.0
60°	261.3	256.8	245.0	236.2	233.3	234.7	233.3	231.8	233.3
62.5°	227.3	222.9	211.0	200.7	197.8	197.8	193.4	191.9	193.4
65°	196.3	188.9	180.1	169.7	163.8	159.4	153.5	153.5	153.5
67.5°	165.3	159.4	149.0	138.8	131.4	124.0	115.2	118.1	119.6
70°	137.3	132.9	121.0	110.8	100.4	91.6	84.1	87.0	88.5
72.5°	112.2	106.2	96.0	84.1	75.3	63.4	59.0	62.0	62.0
75°	87.0	81.2	72.4	60.5	50.1	39.9	39.9	41.3	41.3
77.5°	64.9	59.0	50.1	39.9	31.0	23.6	25.1	25.1	25.1
80°	44.3	39.9	32.5	23.6	16.3	13.3	13.3	13.3	14.8
82.5°	25.1	22.1	17.7	11.9	7.3	7.3	7.3	7.3	7.3
85°	11.9	8.8	7.3	4.4	2.9	2.9	2.9	2.9	2.9
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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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