

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: P580218

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S25D010BZ-HM40525930-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

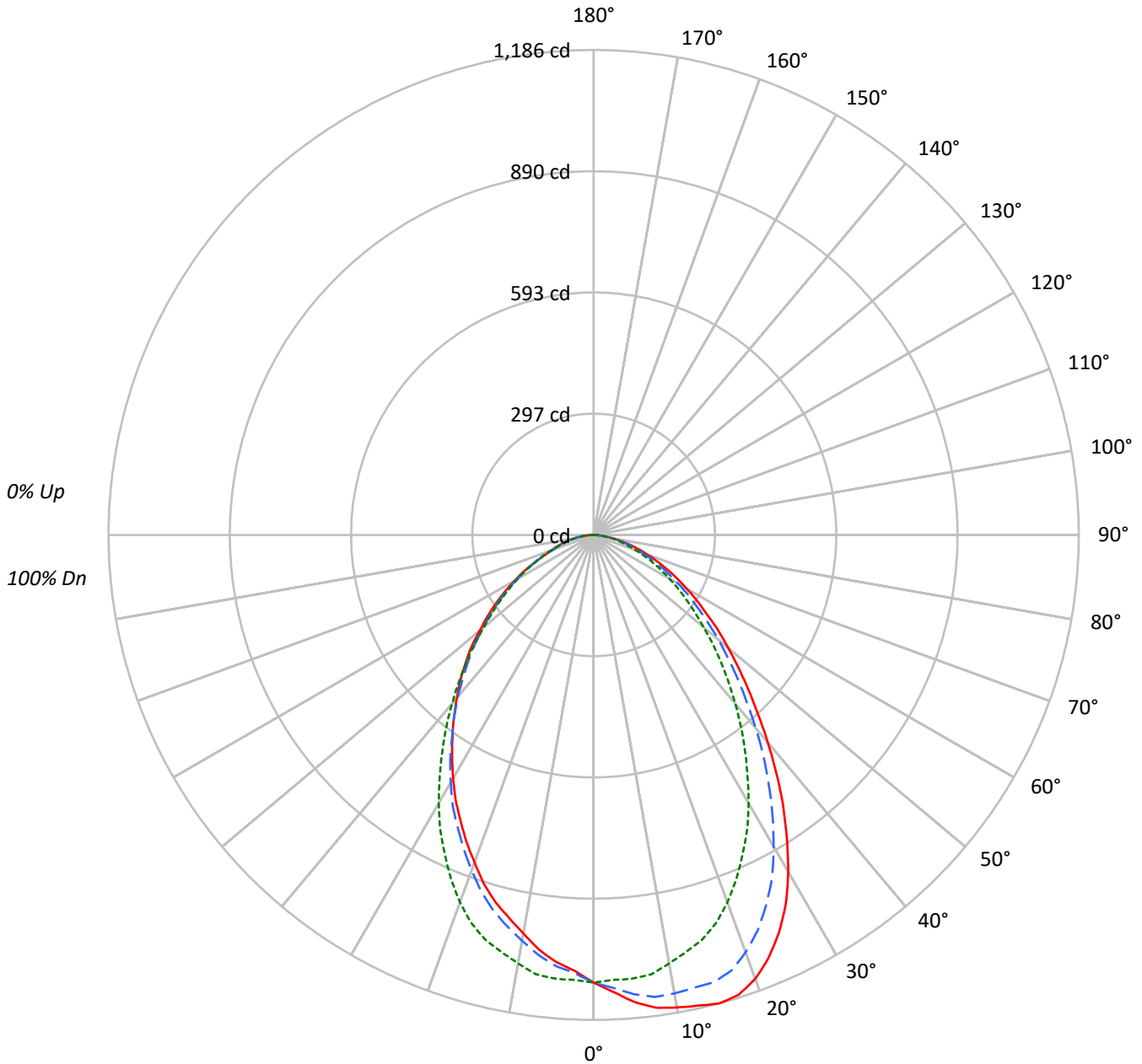
Lumens per Lamp: N/A
Luminaire Lumens: 2123.3 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75					75			
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58					58			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51					51			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46					46			
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41					41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	45	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°	135051	135051	135051
5°	141993	134874	129822
10°	146992	133264	123933
15°	151474	130838	118643
20°	151647	125447	111796
25°	145937	117247	104822
30°	135520	107903	97876
35°	121486	97137	90572
40°	106577	86675	83728
45°	93167	76735	77223
50°	82264	67162	69580
55°	72535	59525	62557
60°	64830	52693	54790
65°	57438	46377	46377
70°	50165	39526	39526
75°	42891	33455	37506
80°	33953	29904	33953
85°	21936	25899	31843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	4.9
10°-20°	292.1	13.8
20°-30°	409.2	19.3
30°-40°	421.6	19.9
40°-50°	359.0	16.9
50°-60°	266.0	12.5
60°-70°	166.9	7.9
70°-80°	82.9	3.9
80°-90°	21.8	1.0
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°	805.1	37.9
0°-40°	1226.7	57.8
0°-60°	1851.7	87.2
0°-90°	2123.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1095	1095	1095	1095	1095	
5°	1147	1127	1089	1058	1048	110
15°	1186	1133	1025	950	929	334
25°	1072	998	862	787	770	490
35°	807	746	645	603	602	503
45°	534	498	440	432	443	414
55°	337	311	277	282	291	305
65°	197	177	159	156	159	196
75°	90	80	70	76	79	96
85°	16	16	18	21	22	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°	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9
2.5°	1118.7	1114.5	1108.9	1099.1	1089.3	1080.8	1072.3	1068.1	1066.8
5°	1146.8	1138.5	1127.2	1108.9	1089.3	1072.3	1058.3	1051.3	1048.5
7.5°	1166.5	1158.1	1139.8	1111.7	1083.6	1058.3	1035.9	1026.0	1023.2
10°	1173.6	1163.8	1138.5	1100.4	1064.0	1033.0	1007.7	995.1	989.5
12.5°	1179.2	1166.5	1134.2	1089.3	1044.2	1006.3	979.6	962.7	958.5
15°	1186.2	1172.1	1132.8	1078.0	1024.6	979.6	950.1	934.6	929.1
17.5°	1179.2	1163.8	1117.4	1055.5	995.1	945.9	913.6	899.5	893.8
20°	1155.3	1138.5	1086.4	1020.4	955.7	905.1	872.8	858.7	851.7
22.5°	1118.7	1100.4	1047.0	976.8	910.8	861.5	830.6	816.6	812.3
25°	1072.3	1054.1	997.9	926.2	861.5	813.8	787.0	774.4	770.2
27.5°	1017.6	999.3	944.5	874.2	812.3	767.4	746.3	733.6	730.8
30°	951.5	933.2	879.8	815.1	757.6	715.3	698.5	688.7	687.2
32.5°	878.4	863.0	813.8	754.7	699.9	664.8	652.1	645.1	643.8
35°	806.8	789.8	746.3	692.9	645.1	614.2	603.0	601.5	601.5
37.5°	733.6	716.8	681.7	632.5	591.7	563.6	559.4	560.8	560.8
40°	661.9	646.5	615.6	574.9	538.3	517.2	515.8	518.7	520.0
42.5°	594.5	581.9	553.8	518.7	487.7	470.8	472.3	477.9	482.1
45°	534.1	522.8	497.6	466.6	439.9	427.2	431.5	438.5	442.7
47.5°	479.3	469.4	445.5	417.4	394.9	386.5	392.1	400.6	406.2
50°	428.7	420.2	397.7	368.3	350.0	344.3	351.3	359.8	362.6
52.5°	383.7	375.3	351.3	326.1	312.1	309.2	316.2	323.2	327.5
55°	337.3	330.2	310.6	288.1	276.8	275.5	282.5	288.1	290.9
57.5°	299.4	292.3	274.1	254.4	244.5	243.2	250.2	254.4	255.8
60°	262.8	255.8	238.9	220.6	213.6	213.6	217.9	220.6	222.1
62.5°	229.1	222.1	206.6	191.1	185.5	185.5	185.5	187.0	191.1
65°	196.8	191.1	177.1	163.0	158.9	156.0	156.0	156.0	158.9
67.5°	167.2	161.7	150.4	137.7	133.6	129.3	127.9	130.7	130.7
70°	139.1	134.9	123.6	113.8	109.6	105.4	104.0	109.6	109.6
72.5°	113.8	109.6	102.6	92.8	88.5	87.2	90.0	92.8	94.2
75°	90.0	85.7	80.2	74.5	70.2	71.7	75.9	77.3	78.7
77.5°	67.5	66.0	60.4	56.2	56.2	57.6	60.4	63.2	64.7
80°	47.8	46.4	43.6	40.8	42.1	44.9	46.4	49.2	47.8
82.5°	29.5	29.5	28.1	28.1	29.5	32.3	33.8	35.1	36.6
85°	15.5	15.5	15.5	16.8	18.3	19.6	21.1	22.5	22.5
87.5°	4.2	5.6	5.6	7.0	8.5	8.5	9.8	9.8	9.8
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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