

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: P583737

Luminaire Tested: **HCC8W10D010BZ-HM80520835-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010BZ-HM80520835-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

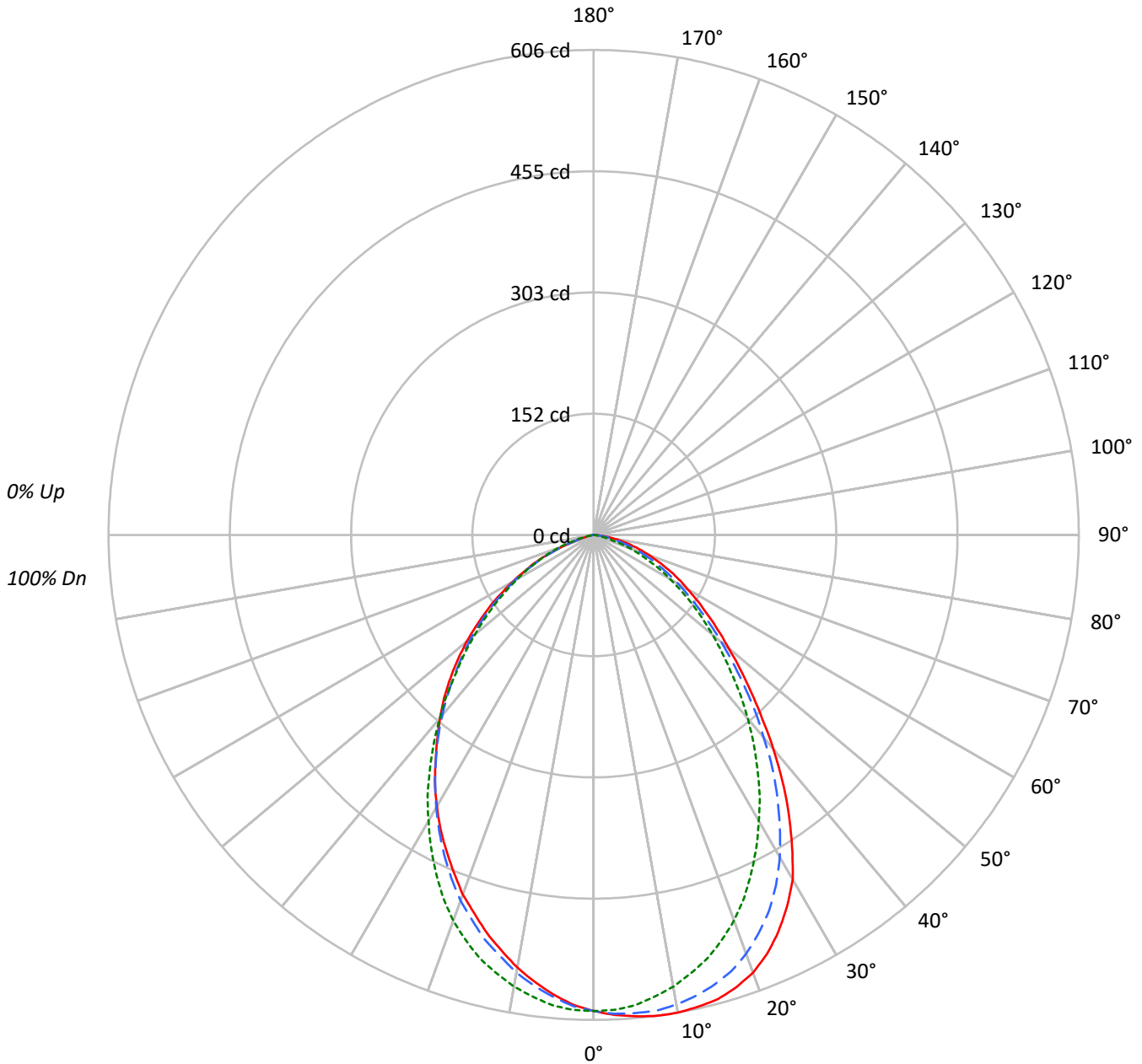
Lumens per Lamp: N/A
Luminaire Lumens: 1115.2 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): 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										
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	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	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	36	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°	18345	18345	18345
5°	18690	18266	17842
10°	18981	17945	17190
15°	19170	17498	16444
20°	19099	16824	15686
25°	18594	15852	14807
30°	17711	14691	13947
35°	15991	13413	12953
40°	14053	12040	12004
45°	12128	10580	11037
50°	10559	9278	9902
55°	9354	8059	8618
60°	8357	6815	7160
65°	7523	5523	5647
70°	6690	4138	3336
75°	5755	2407	1442
80°	4439	852	426
85°	2866	283	283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	5.0
10°-20°	155.5	13.9
20°-30°	219.9	19.7
30°-40°	231.7	20.8
40°-50°	196.9	17.7
50°-60°	141.8	12.7
60°-70°	81.8	7.3
70°-80°	28.0	2.5
80°-90°	3.8	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°	431.2	38.7
0°-40°	662.9	59.4
0°-60°	1001.6	89.8
0°-90°	1115.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	595	595	595	595	595	
5°	604	600	590	580	576	58
15°	600	582	548	524	515	169
25°	546	518	466	442	435	251
35°	425	400	356	343	344	265
45°	278	265	243	244	253	216
55°	174	160	150	156	160	157
65°	103	89	76	74	77	103
75°	48	36	20	13	12	51
85°	8	5	1	1	1	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9
2.5°	600.5	601.4	600.5	600.5	599.7	599.0	598.1	597.3	595.7	594.0	594.0
5°	603.8	605.3	603.8	603.8	601.4	599.7	598.1	595.7	592.5	590.1	590.1
7.5°	606.2	606.2	606.2	603.8	602.1	599.7	595.7	591.6	587.7	583.6	582.0
10°	606.2	606.2	605.3	602.1	600.5	595.7	591.6	586.0	580.3	574.7	573.1
12.5°	603.8	604.5	602.9	599.7	595.7	590.1	584.4	577.1	570.7	564.2	561.0
15°	600.5	599.7	598.1	594.0	589.2	582.0	576.4	568.3	559.4	551.4	548.1
17.5°	592.5	592.5	590.1	586.0	579.6	571.6	562.7	553.8	544.1	535.3	531.2
20°	582.0	582.0	578.8	574.0	567.5	557.0	547.3	536.8	525.5	516.7	512.7
22.5°	566.6	567.5	563.4	557.8	550.5	538.5	528.8	515.9	504.6	494.1	490.9
25°	546.5	548.1	544.1	538.5	528.8	518.3	506.2	494.1	481.2	470.7	465.9
27.5°	523.1	524.0	519.9	514.2	504.6	493.3	481.2	468.3	456.3	445.0	440.1
30°	497.4	494.1	492.5	485.2	474.8	465.1	451.4	440.9	428.0	418.3	412.6
32.5°	461.1	462.6	457.8	452.2	444.1	432.8	421.5	409.5	397.4	390.2	386.1
35°	424.8	426.3	423.9	418.3	409.5	399.8	388.5	379.7	369.1	360.4	356.3
37.5°	386.9	386.9	385.2	382.1	375.6	366.7	355.4	346.7	337.8	330.4	328.0
40°	349.1	347.4	346.7	344.1	338.6	330.4	323.2	316.0	307.1	302.3	299.1
42.5°	311.9	311.9	310.4	308.0	302.3	298.2	291.0	283.0	276.5	271.7	271.7
45°	278.1	278.9	276.5	274.9	271.7	265.2	258.8	253.1	247.5	244.2	242.6
47.5°	248.2	248.2	245.8	244.2	241.0	235.4	229.7	224.9	220.8	218.4	217.7
50°	220.1	220.1	220.1	216.0	212.0	207.9	204.0	198.3	195.9	194.2	193.4
52.5°	195.9	195.1	195.1	191.8	187.8	182.9	179.0	174.0	171.6	170.1	170.9
55°	174.0	174.0	173.3	169.2	165.3	160.3	156.4	152.3	150.7	149.2	149.9
56°	165.3	165.3	164.4	161.2	156.4	152.3	147.5	143.5	141.1	141.8	141.8
57°	158.8	157.2	157.2	153.1	149.2	143.5	139.4	135.5	133.8	132.9	132.9
58°	150.7	149.9	149.2	145.1	141.1	136.2	132.2	128.1	125.7	125.7	124.9
59°	142.7	142.7	141.1	137.9	133.8	129.0	124.9	120.9	118.5	117.7	117.7
60°	135.5	136.2	133.8	130.5	127.4	121.8	116.8	113.7	111.2	110.5	110.5
61°	129.0	129.0	127.4	123.3	119.2	115.3	110.5	106.4	104.8	103.1	103.1
62°	123.3	121.8	120.9	116.8	112.9	108.1	104.0	100.0	97.5	95.9	96.8
63°	116.1	115.3	113.7	110.5	106.4	101.6	96.8	93.5	91.1	88.7	89.4
64°	110.5	109.6	107.2	104.0	100.0	95.1	90.3	87.0	85.5	83.1	82.2
65°	103.1	102.4	101.6	97.5	93.5	88.7	84.6	81.4	79.0	77.4	75.7
66°	96.8	97.5	95.9	92.7	87.9	83.8	78.1	75.0	73.3	70.9	69.4
67°	91.1	91.1	89.4	86.3	81.4	77.4	73.3	69.4	67.0	64.4	63.7
67.5°	87.9	87.9	86.3	82.2	79.0	74.2	70.1	67.0	63.7	62.0	60.5
68°	84.6	84.6	83.8	80.7	76.6	71.8	67.7	63.7	60.5	58.1	57.2
69°	79.0	79.8	78.1	75.0	70.9	66.1	62.0	58.9	55.7	53.2	51.6
70°	74.2	73.3	71.8	68.5	64.4	61.3	57.2	53.2	50.0	46.8	45.9
71°	67.7	67.7	66.1	63.7	59.6	55.7	51.6	48.3	45.2	41.1	40.3
72°	62.9	62.9	61.3	58.1	54.8	50.7	46.8	42.7	40.3	36.3	34.6
72.5°	59.6	60.5	58.9	55.7	52.4	47.6	44.4	41.1	37.0	33.9	32.2
73°	58.1	57.2	56.4	53.2	49.2	45.9	41.9	38.7	34.6	31.5	29.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	36.3	36.3	35.5	32.2	29.0	25.8	22.6	19.4	16.1	12.9	11.3
80°	25.0	25.8	24.2	22.6	20.2	16.9	13.7	11.3	8.1	6.5	4.8
82.5°	16.1	16.1	15.3	13.7	12.1	9.6	8.1	5.6	4.1	3.2	2.4
85°	8.1	8.9	8.1	7.2	5.6	4.8	4.1	2.4	1.6	0.8	0.8
87.5°	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9
2.5°	592.5	592.5	590.8	590.1	589.2	588.4	587.7	586.8	586.8	587.7
5°	587.7	586.0	582.7	582.0	579.6	578.8	577.1	576.4	577.1	576.4
7.5°	580.3	577.1	573.1	571.6	568.3	566.6	564.2	564.2	562.7	563.4
10°	570.7	565.9	561.0	557.8	555.3	552.9	551.4	549.7	549.0	549.0
12.5°	558.6	552.9	548.1	543.3	539.2	537.7	534.4	534.4	532.8	532.0
15°	544.9	537.7	532.0	527.2	524.0	520.7	518.3	516.7	515.1	515.1
17.5°	527.2	520.7	515.1	509.4	504.6	502.2	499.8	497.4	497.4	495.7
20°	507.8	500.5	495.7	490.1	486.1	482.0	478.8	478.8	477.2	478.0
22.5°	486.1	477.2	472.4	468.3	464.3	461.1	457.8	457.8	457.0	456.3
25°	461.9	454.6	448.9	444.1	441.7	438.5	437.6	436.1	435.2	435.2
27.5°	436.1	430.4	423.2	420.8	417.6	415.9	415.9	415.2	413.5	414.3
30°	408.7	402.2	398.2	396.5	393.4	393.4	392.6	390.9	390.9	391.7
32.5°	382.1	375.6	372.4	371.5	368.4	368.4	367.6	368.4	368.4	369.1
35°	353.0	347.4	346.7	344.1	343.4	343.4	343.4	345.0	346.7	344.1
37.5°	325.6	321.7	319.3	318.4	319.3	319.3	320.0	322.4	321.7	320.8
40°	297.5	294.2	292.6	292.6	294.2	295.8	295.8	298.2	299.1	298.2
42.5°	269.2	266.8	266.8	267.6	269.2	270.1	272.5	274.9	275.6	276.5
45°	242.6	242.6	242.6	243.4	244.2	245.8	249.1	251.5	252.3	253.1
47.5°	216.8	216.0	218.4	219.2	221.6	222.5	224.9	228.1	228.9	229.7
50°	192.7	194.2	195.1	197.5	199.1	199.1	202.3	204.0	206.4	206.4
52.5°	170.1	172.5	173.3	175.7	176.6	177.3	179.0	181.4	182.9	182.9
55°	149.9	150.7	152.3	153.1	155.5	156.4	157.9	158.8	161.2	160.3
56°	141.1	142.7	143.5	145.1	146.6	147.5	149.2	149.9	151.6	152.3
57°	132.9	133.8	136.2	137.0	138.6	138.6	139.4	141.8	141.8	142.7
58°	124.9	126.6	127.4	128.1	129.8	130.5	132.2	132.9	133.8	132.9
59°	117.7	118.5	119.2	119.2	120.9	120.9	123.3	124.9	125.7	125.7
60°	110.5	110.5	111.2	112.0	113.7	114.4	114.4	116.1	116.1	116.1
61°	103.1	103.1	104.0	104.8	105.5	105.5	107.2	107.2	108.1	108.8
62°	96.8	95.9	95.9	96.8	96.8	98.3	99.2	100.0	100.7	100.0
63°	89.4	88.7	88.7	88.7	88.7	90.3	90.3	91.1	92.7	91.8
64°	81.4	81.4	81.4	81.4	82.2	82.2	83.8	84.6	85.5	86.3
65°	75.7	74.2	73.3	73.3	74.2	75.0	75.7	76.6	77.4	77.4
66°	69.4	67.7	67.0	67.0	67.0	67.0	68.5	68.5	70.1	70.1
67°	62.0	60.5	59.6	58.9	58.9	58.9	61.3	60.5	60.5	60.5
67.5°	59.6	57.2	56.4	55.7	54.8	56.4	55.7	56.4	56.4	55.7
68°	56.4	54.8	53.2	51.6	51.6	51.6	52.4	53.2	52.4	51.6
69°	50.0	49.2	46.8	45.2	44.4	45.2	44.4	45.2	44.4	45.2
70°	44.4	41.9	39.5	38.7	37.9	37.9	37.9	37.0	37.9	37.0
71°	38.7	36.3	33.9	32.2	31.5	31.5	30.7	31.5	30.7	31.5
72°	33.1	30.7	27.4	25.8	25.8	25.8	25.8	25.0	25.8	25.0
72.5°	30.7	27.4	25.0	23.3	22.6	22.6	22.6	22.6	21.8	22.6
73°	28.2	25.0	21.8	20.9	20.9	20.9	20.2	19.4	20.2	20.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	9.6	7.2	6.5	6.5	6.5	6.5	6.5	6.5	5.6	5.6
80°	4.1	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	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	0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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74°	52.4	52.4	50.7	48.3	44.4	40.3	37.0	33.9	29.8	25.8	24.2
75°	48.3	47.6	45.9	43.5	40.3	36.3	33.1	29.0	25.8	21.8	20.2

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74°	23.3	19.4	17.8	16.1	16.1	16.1	15.3	15.3	15.3	16.1
75°	18.5	15.3	13.7	12.1	12.9	12.1	12.9	12.1	12.1	12.1

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(END OF REPORT)