

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: P580990

Luminaire Tested: **HCC4S05D010BZ-HM40525827-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580990
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: HCC4S05D010BZ-HM40525827-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

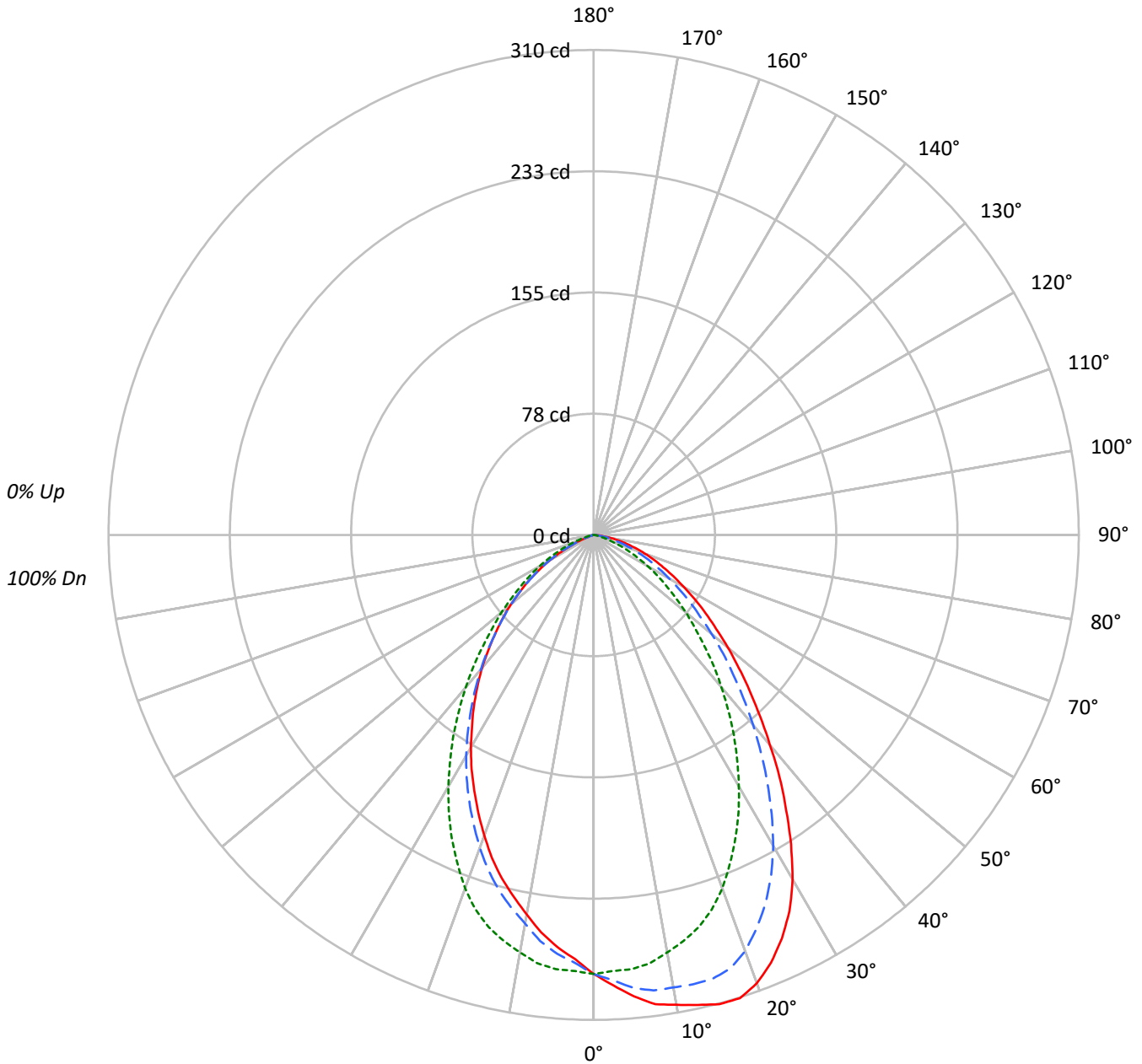
Lumens per Lamp: N/A
Luminaire Lumens: 484.7 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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	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°	34611	34611	34611
5°	36662	34495	32762
10°	38201	33942	30849
15°	39650	33137	29000
20°	40035	31542	26817
25°	38720	29166	24552
30°	36205	26434	22347
35°	32269	23505	20087
40°	28210	20433	17873
45°	24578	17339	15455
50°	21453	14699	13241
55°	18795	12172	10731
60°	16430	9868	7869
65°	14330	7355	4436
70°	12514	4760	1443
75°	10294	2478	381
80°	7671	1137	355
85°	4529	708	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	5.5
10°-20°	74.1	15.3
20°-30°	102.5	21.1
30°-40°	103.1	21.3
40°-50°	83.1	17.2
50°-60°	56.2	11.6
60°-70°	28.6	5.9
70°-80°	9.2	1.9
80°-90°	1.4	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°	203.1	41.9
0°-40°	306.1	63.2
0°-60°	445.5	91.9
0°-90°	484.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	484.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	281	281	281	281	281	
5°	296	291	279	269	265	29
15°	310	294	260	235	227	87
25°	284	260	214	188	180	130
35°	214	194	156	136	133	134
45°	141	126	99	89	89	109
55°	87	76	57	50	50	79
65°	49	40	25	16	15	49
75°	22	15	5	1	1	23
85°	3	2	0	0	0	4
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°	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6
2.5°	288.2	286.6	285.0	282.2	279.0	275.8	273.8	272.2	271.4
5°	296.1	294.2	290.6	284.5	278.6	273.0	268.7	265.8	264.6
7.5°	302.6	299.8	293.7	285.3	276.1	267.4	261.8	257.9	256.3
10°	305.0	301.7	293.7	282.6	271.0	260.3	252.2	248.2	246.3
12.5°	307.7	304.2	294.2	280.2	265.8	253.0	243.9	238.7	236.6
15°	310.5	305.8	293.7	276.6	259.5	244.7	234.7	229.5	227.1
17.5°	310.5	305.0	290.6	270.6	251.1	235.5	224.3	218.4	216.3
20°	305.0	298.5	283.0	261.0	240.3	223.5	212.7	206.8	204.3
22.5°	296.1	289.0	272.2	249.5	227.5	211.1	200.3	194.8	192.4
25°	284.5	277.4	259.8	236.3	214.3	197.9	188.0	182.8	180.4
27.5°	271.0	263.0	245.5	221.9	200.3	184.8	175.6	170.8	168.8
30°	254.2	246.6	229.5	206.3	185.6	171.3	162.9	158.4	156.9
32.5°	234.7	228.2	211.6	190.0	170.5	157.3	149.7	146.1	144.5
35°	214.3	208.4	193.6	173.7	156.1	143.7	136.5	134.2	133.4
37.5°	195.2	190.0	175.6	157.3	141.3	130.5	124.2	122.6	121.8
40°	175.2	171.6	158.4	141.6	126.9	117.4	112.1	111.0	111.0
42.5°	157.3	153.2	141.6	126.6	113.4	103.7	100.2	99.0	99.4
45°	140.9	136.9	126.1	112.1	99.4	91.4	88.6	88.6	88.6
47.5°	125.8	122.1	112.1	97.8	87.4	81.0	78.2	78.2	78.7
50°	111.8	109.4	98.2	85.8	76.6	70.6	68.7	68.2	69.0
52.5°	98.6	95.8	85.8	74.7	65.8	61.1	59.0	58.7	59.0
55°	87.4	84.2	75.5	64.7	56.6	51.9	49.5	49.1	49.9
57.5°	76.6	74.2	65.0	55.5	47.9	43.1	41.1	40.3	40.7
60°	66.6	64.2	55.8	46.6	40.0	35.1	32.3	31.6	31.9
62.5°	57.4	55.5	47.4	38.7	31.9	27.6	24.7	22.7	23.5
65°	49.1	47.1	40.0	31.1	25.2	20.3	16.3	14.8	15.2
67.5°	41.9	39.5	32.7	24.7	18.7	13.6	9.2	8.4	8.4
70°	34.7	32.3	26.3	19.2	13.2	7.2	4.0	4.0	4.0
72.5°	27.9	26.0	20.3	14.4	8.4	3.2	1.6	1.6	1.6
75°	21.6	20.0	15.2	10.0	5.2	1.6	1.2	0.8	0.8
77.5°	16.0	14.4	10.8	6.8	3.2	0.8	0.8	0.8	0.8
80°	10.8	9.5	7.2	4.0	1.6	0.5	0.5	0.5	0.5
82.5°	6.4	5.6	4.0	2.0	0.8	0.5	0.5	0.5	0.5
85°	3.2	2.4	1.6	0.8	0.5	0.5	0.5	0.5	0.5
87.5°	0.8	0.5	0.5	0.5	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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