

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: P580988

Luminaire Tested: **HCC4W05D010BZ-HM40525827-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580988
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: HCC4W05D010BZ-HM40525827-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

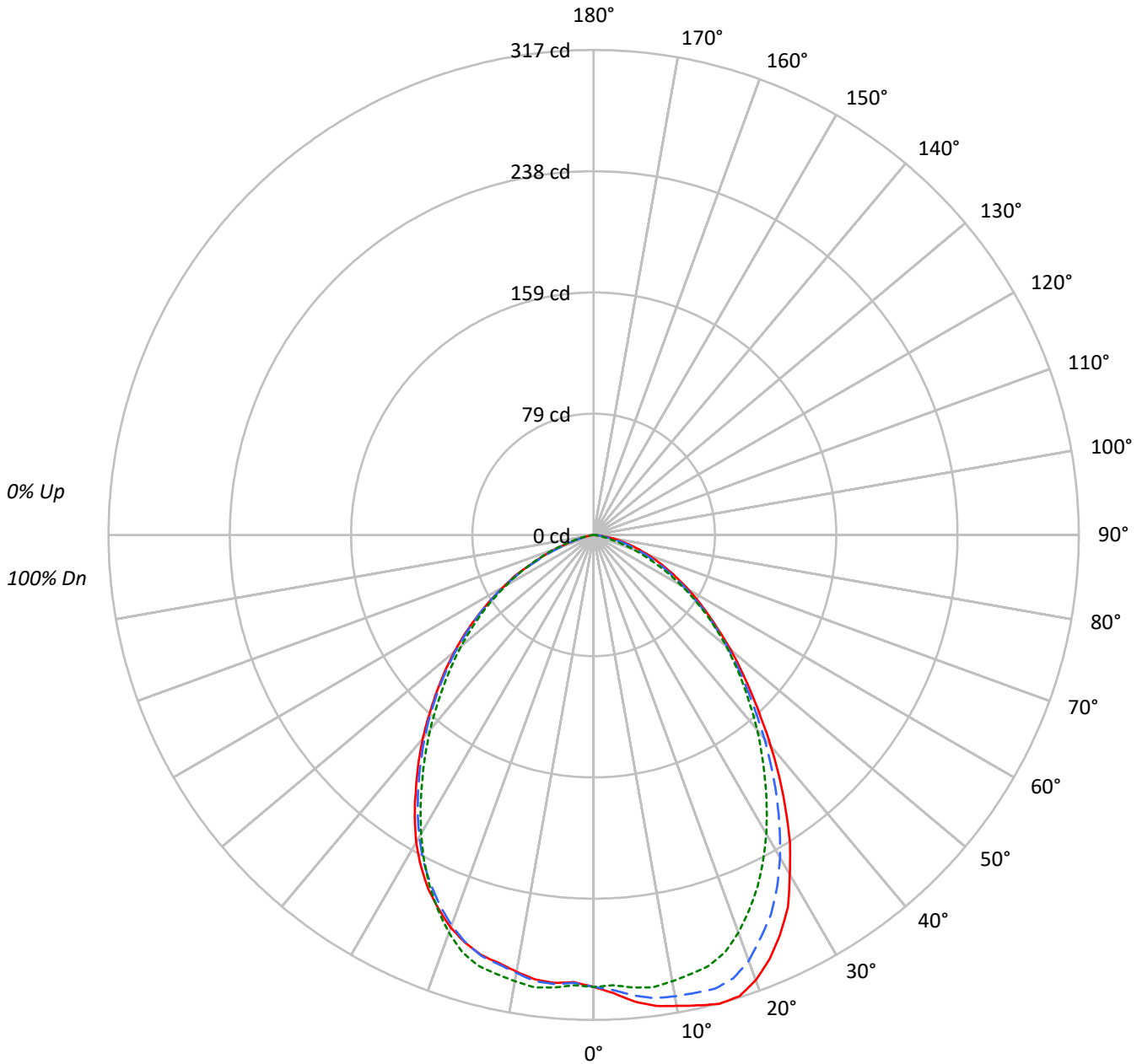
Lumens per Lamp: N/A
Luminaire Lumens: 615.6 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P580988
CATALOG NUMBER: HCC4W05D010BZ-HM40525827-41RWWC

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P580988

CATALOG NUMBER: HCC4W05D010BZ-HM40525827-41RWWC

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	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°	36436	36436	36436
5°	37913	36774	36390
10°	39153	37099	36310
15°	40518	37224	36291
20°	40652	36307	35848
25°	39223	34487	34773
30°	36504	32117	33043
35°	32886	29393	30477
40°	28983	26745	27969
45°	25346	24090	25276
50°	22451	21665	22816
55°	19741	19139	19913
60°	17638	16356	16824
65°	15498	13280	13046
70°	13560	9773	8908
75°	11247	5909	4766
80°	8524	2273	1421
85°	3963	708	708



TEST NUMBER: P580988
 CATALOG NUMBER: HCC4W05D010BZ-HM40525827-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	4.6
10°-20°	83.2	13.5
20°-30°	120.4	19.6
30°-40°	127.1	20.6
40°-50°	110.0	17.9
50°-60°	81.4	13.2
60°-70°	46.9	7.6
70°-80°	16.4	2.7
80°-90°	1.8	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°	232.1	37.7
0°-40°	359.1	58.3
0°-60°	550.5	89.4
0°-90°	615.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	295	295	295	295	295	
5°	306	302	297	295	294	29
15°	317	307	292	285	284	89
25°	288	274	253	252	256	132
35°	218	208	195	200	202	136
45°	145	141	138	143	145	113
55°	92	90	89	92	93	83
65°	53	50	46	43	45	53
75°	24	20	12	10	10	25
85°	3	2	0	0	0	4
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P580988

CATALOG NUMBER: HCC4W05D010BZ-HM40525827-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4
2.5°	299.8	299.0	297.8	296.2	294.6	293.4	293.1	292.6	292.6
5°	306.2	304.6	302.3	299.0	297.0	295.8	294.6	293.9	293.9
7.5°	310.5	308.9	305.4	301.0	298.2	295.8	294.2	293.1	293.1
10°	312.6	310.5	306.2	300.5	296.2	293.1	290.7	289.9	289.9
12.5°	315.0	312.6	306.6	299.4	293.9	289.9	287.4	286.6	286.6
15°	317.3	314.6	307.0	298.6	291.5	286.6	284.7	284.2	284.2
17.5°	316.2	312.6	303.8	293.9	285.8	281.0	279.1	279.1	279.4
20°	309.7	306.2	296.2	285.0	276.6	273.1	271.5	272.3	273.1
22.5°	300.2	295.8	285.0	274.2	265.5	262.3	262.3	263.4	264.7
25°	288.2	284.2	273.9	261.8	253.4	251.1	251.9	253.9	255.5
27.5°	274.7	270.2	259.5	248.3	239.9	238.7	240.7	243.6	244.4
30°	256.3	252.7	243.6	232.8	225.5	225.2	227.9	230.0	232.0
32.5°	238.7	234.7	226.0	215.5	210.4	210.8	213.9	216.3	217.6
35°	218.4	214.7	208.4	200.0	195.2	196.0	199.6	202.0	202.4
37.5°	199.2	196.8	190.5	184.0	180.5	182.1	185.2	188.1	188.1
40°	180.0	178.1	173.2	168.1	166.1	168.1	171.3	173.7	173.7
42.5°	161.6	160.5	156.5	152.9	151.7	154.5	157.3	159.2	158.9
45°	145.3	144.1	141.3	138.5	138.1	141.0	143.4	144.5	144.9
47.5°	130.5	129.7	127.3	125.3	125.3	128.1	130.2	131.3	131.8
50°	117.0	116.2	114.2	112.6	112.9	115.8	117.4	118.6	118.9
52.5°	103.4	102.9	101.4	99.4	100.6	102.6	104.6	105.4	105.8
55°	91.8	91.8	89.8	88.2	89.0	91.0	92.2	92.6	92.6
57.5°	81.5	81.0	78.7	77.1	77.4	79.4	80.2	80.6	80.6
60°	71.5	71.1	68.7	66.3	66.3	67.4	67.9	68.2	68.2
62.5°	61.9	61.5	58.7	56.6	55.8	55.5	55.5	56.3	57.9
65°	53.1	52.7	49.9	46.8	45.5	44.3	43.1	43.9	44.7
67.5°	45.1	44.3	41.5	38.7	36.0	33.9	31.9	33.1	34.7
70°	37.6	36.8	33.5	30.3	27.1	23.9	22.4	23.9	24.7
72.5°	30.3	29.5	26.3	23.2	19.2	16.0	15.5	16.0	16.3
75°	23.6	23.2	20.0	16.3	12.4	10.0	10.0	10.0	10.0
77.5°	17.6	16.8	13.6	10.3	7.2	5.6	5.2	5.2	5.2
80°	12.0	11.1	8.4	6.0	3.2	2.4	2.4	2.0	2.0
82.5°	6.8	6.4	4.4	2.4	1.2	0.8	0.8	0.8	0.8
85°	2.8	2.4	1.6	0.8	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	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

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)