

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: P580305

Luminaire Tested: **HCC4W30D010BZ-HM43040835-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580305
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: HCC4W30D010BZ-HM43040835-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

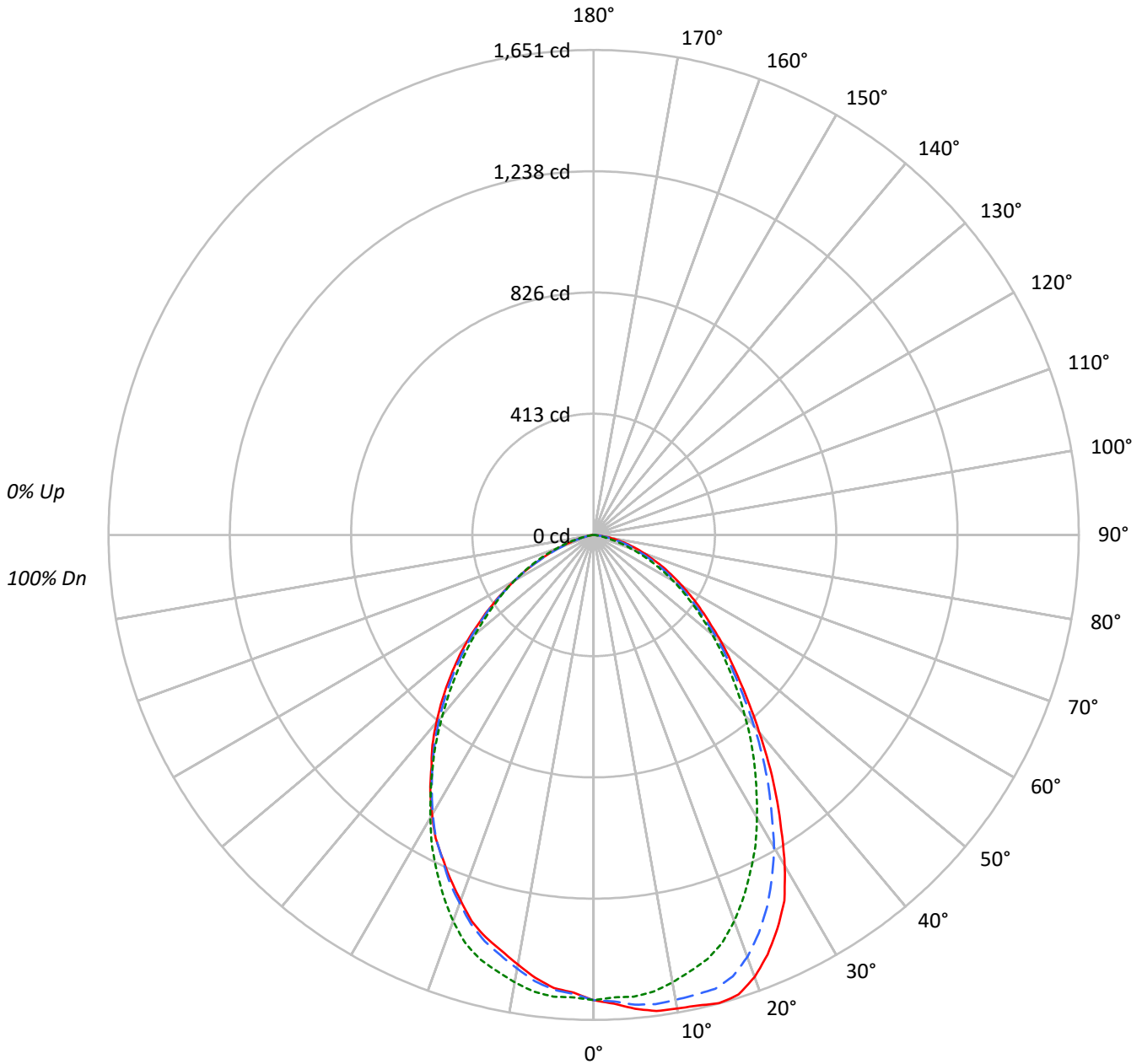
Lumens per Lamp: N/A
Luminaire Lumens: 3018.5 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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: P580305
CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P580305

CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41RWWH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	195342	195342	195342
5°	200472	195346	191706
10°	205007	193672	186044
15°	210776	190932	181138
20°	210202	183596	173777
25°	201342	171890	165467
30°	185212	158308	156627
35°	162925	143681	144855
40°	140954	128604	133982
45°	122507	114274	121147
50°	108726	100801	107594
55°	96448	88427	92233
60°	85898	76696	76696
65°	76380	63742	59715
70°	65997	48253	42555
75°	55330	31883	26211
80°	41909	15414	13922
85°	22361	5519	5519



TEST NUMBER: P580305
 CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	5.0
10°-20°	425.2	14.1
20°-30°	599.6	19.9
30°-40°	619.4	20.5
40°-50°	525.1	17.4
50°-60°	382.1	12.7
60°-70°	223.2	7.4
70°-80°	83.0	2.7
80°-90°	10.8	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°	1174.8	38.9
0°-40°	1794.3	59.4
0°-60°	2701.4	89.5
0°-90°	3018.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3018.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1584	1584	1584	1584	1584	
5°	1619	1605	1578	1554	1548	155
15°	1651	1599	1495	1432	1418	464
25°	1479	1397	1263	1218	1216	677
35°	1082	1035	954	956	962	676
45°	702	683	655	679	694	547
55°	448	427	411	425	429	403
65°	262	240	218	205	205	260
75°	116	96	67	53	55	125
85°	16	10	4	4	4	22
90°	0	0	0	0	0	



TEST NUMBER: P580305

CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1583.7	1583.7	1583.7	1583.7	1583.7	1583.7	1583.7	1583.7	1583.7
2.5°	1597.5	1593.5	1589.6	1583.7	1575.8	1570.0	1564.0	1560.0	1560.0
5°	1619.1	1613.2	1605.3	1591.5	1577.7	1566.0	1554.2	1548.3	1548.3
7.5°	1634.8	1626.9	1611.2	1591.5	1567.9	1550.2	1532.5	1524.6	1520.8
10°	1636.8	1628.9	1607.3	1577.7	1546.3	1518.7	1499.1	1487.3	1485.4
12.5°	1640.7	1630.9	1603.3	1562.1	1520.8	1487.3	1465.6	1453.9	1449.9
15°	1650.6	1636.8	1599.4	1546.3	1495.2	1455.8	1432.2	1422.3	1418.5
17.5°	1640.7	1621.0	1575.8	1512.9	1455.8	1412.5	1388.9	1379.1	1379.1
20°	1601.4	1581.7	1528.6	1459.7	1398.7	1357.4	1333.9	1327.9	1323.9
22.5°	1546.3	1524.6	1467.6	1394.8	1333.9	1296.4	1280.7	1272.8	1270.9
25°	1479.4	1457.7	1396.8	1322.0	1263.0	1231.6	1217.8	1217.8	1215.8
27.5°	1404.7	1377.1	1314.1	1249.3	1192.2	1168.6	1162.6	1162.6	1164.7
30°	1300.4	1280.7	1227.6	1164.7	1111.5	1095.7	1095.7	1099.7	1099.7
32.5°	1188.2	1174.5	1127.2	1072.2	1030.9	1021.1	1025.0	1032.8	1034.8
35°	1082.0	1066.3	1034.8	985.6	954.2	950.2	956.1	962.0	962.0
37.5°	977.8	962.0	940.4	901.0	877.4	879.4	887.3	895.1	901.0
40°	875.4	863.6	847.9	816.4	798.7	806.6	816.4	824.3	832.1
42.5°	785.0	773.1	761.3	737.7	726.0	735.8	747.5	755.4	763.3
45°	702.3	694.5	682.7	662.9	655.1	665.0	678.7	686.6	694.5
47.5°	631.5	627.6	611.8	594.1	590.2	600.0	611.8	621.6	627.6
50°	566.6	560.7	546.9	529.1	525.3	541.0	548.9	554.8	560.7
52.5°	503.7	497.7	482.0	466.2	466.2	478.0	483.9	485.9	491.8
55°	448.5	442.6	426.9	415.1	411.2	421.0	424.9	424.9	428.9
57.5°	397.4	391.5	375.7	362.0	360.1	365.9	365.9	365.9	367.8
60°	348.2	342.3	326.6	314.7	310.9	312.8	310.9	308.8	310.9
62.5°	303.0	297.1	281.3	267.6	263.6	263.6	257.7	255.7	257.7
65°	261.7	251.8	240.0	226.3	218.4	212.5	204.6	204.6	204.6
67.5°	220.3	212.5	198.6	184.9	175.1	165.3	153.4	157.4	159.4
70°	183.0	177.1	161.3	147.5	133.8	121.9	112.1	116.1	118.0
72.5°	149.5	141.7	127.9	112.1	100.3	84.6	78.7	82.7	82.7
75°	116.1	108.2	96.4	80.7	66.9	53.1	53.1	55.0	55.0
77.5°	86.5	78.7	66.9	53.1	41.3	31.5	33.4	33.4	33.4
80°	59.0	53.1	43.3	31.5	21.7	17.7	17.7	17.7	19.6
82.5°	33.4	29.6	23.6	15.8	9.8	9.8	9.8	9.8	9.8
85°	15.8	11.8	9.8	5.9	3.9	3.9	3.9	3.9	3.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)