

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: P580287

Luminaire Tested: **HCC4W30D010MW-HM43040830-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580287  
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: HCC4W30D010MW-HM43040830-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

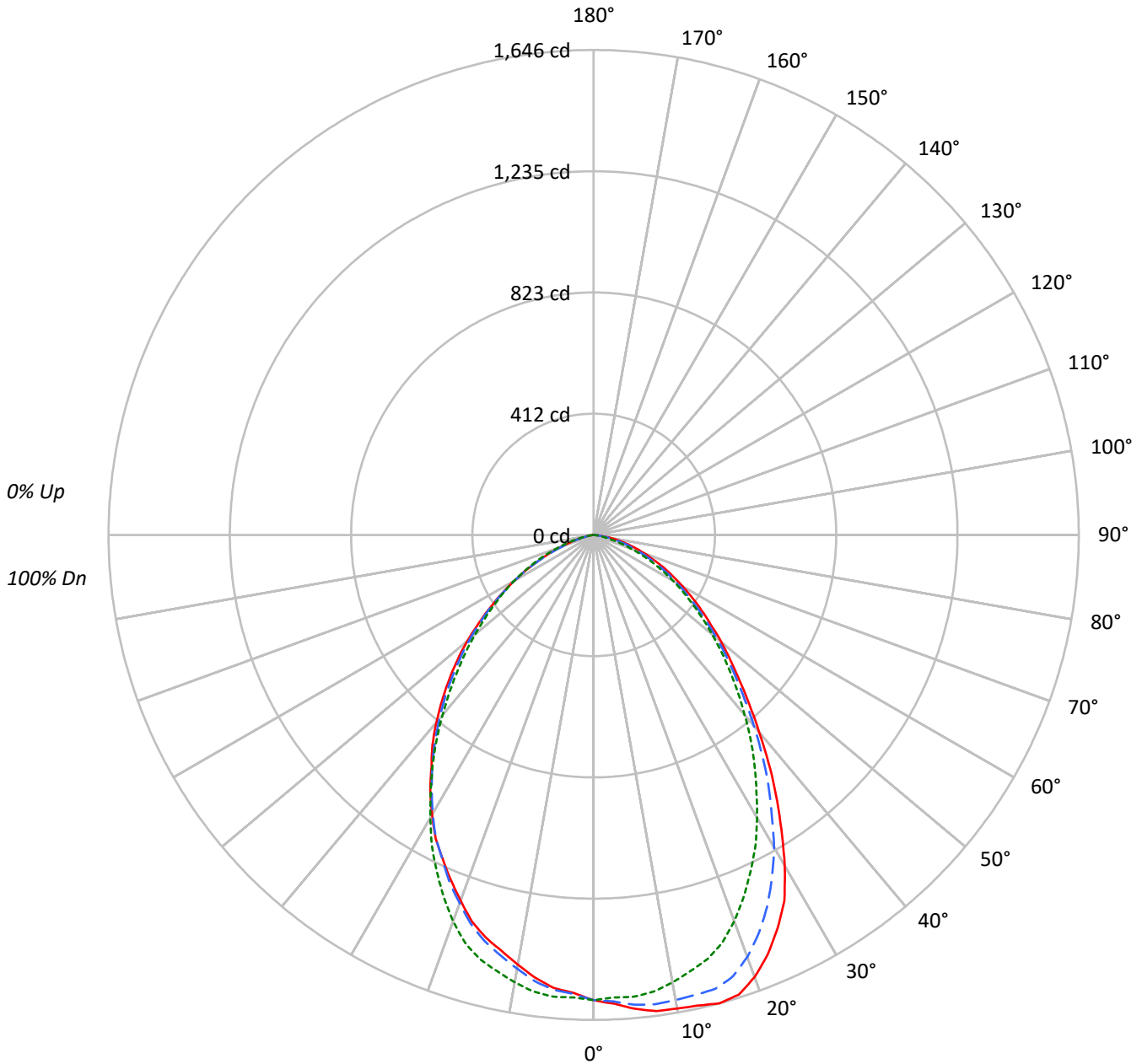
Lumens per Lamp: N/A  
Luminaire Lumens: 3009.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P580287  
CATALOG NUMBER: HCC4W30D010MW-HM43040830-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580287

CATALOG NUMBER: HCC4W30D010MW-HM43040830-41RWWH

**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	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°	194787	194787	194787
5°	199902	194789	191161
10°	204418	193121	185505
15°	210176	190383	180614
20°	209599	183084	173292
25°	200770	171400	164990
30°	184671	157866	156171
35°	162458	143274	144449
40°	140567	128249	133611
45°	122158	113942	120798
50°	108419	100494	107267
55°	96190	88169	91954
60°	85651	76474	76474
65°	76146	63538	59569
70°	65780	48109	42447
75°	55139	31787	26164
80°	41838	15272	13922
85°	22219	5519	5519



TEST NUMBER: P580287  
 CATALOG NUMBER: HCC4W30D010MW-HM43040830-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.6	5.0
10°-20°	424.0	14.1
20°-30°	597.9	19.9
30°-40°	617.7	20.5
40°-50°	523.6	17.4
50°-60°	381.0	12.7
60°-70°	222.6	7.4
70°-80°	82.7	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°	1171.5	38.9
0°-40°	1789.2	59.4
0°-60°	2693.8	89.5
0°-90°	3009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3009.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1579	1579	1579	1579	1579	
5°	1614	1601	1573	1550	1544	155
15°	1646	1595	1491	1428	1414	463
25°	1475	1393	1259	1214	1212	675
35°	1079	1032	952	953	959	674
45°	700	681	653	677	692	545
55°	447	426	410	424	428	402
65°	261	239	218	204	204	259
75°	116	96	67	53	55	124
85°	16	10	4	4	4	22
90°	0	0	0	0	0	

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



TEST NUMBER: P580287

CATALOG NUMBER: HCC4W30D010MW-HM43040830-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1592.8	1589.0	1585.1	1579.2	1571.3	1565.4	1559.6	1555.6	1555.6
5°	1614.5	1608.5	1600.7	1587.0	1573.2	1561.5	1549.8	1543.9	1543.9
7.5°	1630.2	1622.3	1606.6	1587.0	1563.4	1545.8	1528.1	1520.3	1516.4
10°	1632.1	1624.3	1602.7	1573.2	1541.9	1514.5	1494.8	1483.0	1481.1
12.5°	1636.1	1626.2	1598.7	1557.5	1516.4	1483.0	1461.4	1449.7	1445.8
15°	1645.9	1632.1	1594.9	1541.9	1490.9	1451.6	1428.0	1418.3	1414.4
17.5°	1636.1	1616.4	1571.3	1508.5	1451.6	1408.5	1385.0	1375.1	1375.1
20°	1596.8	1577.2	1524.3	1455.6	1394.8	1353.6	1330.0	1324.2	1320.2
22.5°	1541.9	1520.3	1463.5	1390.8	1330.0	1292.8	1277.0	1269.2	1267.2
25°	1475.2	1453.7	1392.7	1318.3	1259.4	1228.1	1214.3	1214.3	1212.3
27.5°	1400.6	1373.2	1310.4	1245.7	1188.8	1165.2	1159.4	1159.4	1161.3
30°	1296.6	1277.0	1224.1	1161.3	1108.4	1092.7	1092.7	1096.5	1096.5
32.5°	1184.9	1171.1	1124.1	1069.1	1027.9	1018.1	1022.1	1029.9	1031.9
35°	1078.9	1063.3	1031.9	982.8	951.5	947.5	953.4	959.3	959.3
37.5°	974.9	959.3	937.7	898.5	874.9	876.9	884.7	892.6	898.5
40°	873.0	861.2	845.4	814.1	796.5	804.3	814.1	822.0	829.8
42.5°	782.7	771.0	759.1	735.7	723.8	733.7	745.4	753.3	761.2
45°	700.3	692.5	680.7	661.1	653.2	663.0	676.8	684.6	692.5
47.5°	629.6	625.8	610.1	592.4	588.5	598.3	610.1	619.8	625.8
50°	565.0	559.0	545.4	527.7	523.7	539.4	547.3	553.2	559.0
52.5°	502.2	496.3	480.6	465.0	465.0	476.7	482.6	484.6	490.5
55°	447.3	441.4	425.7	413.9	410.0	419.8	423.7	423.7	427.6
57.5°	396.3	390.4	374.7	361.0	359.0	364.9	364.9	364.9	366.8
60°	347.2	341.3	325.7	313.9	310.0	311.9	310.0	307.9	310.0
62.5°	302.1	296.2	280.5	266.8	262.8	262.8	257.0	255.0	257.0
65°	260.9	251.1	239.4	225.6	217.7	211.8	204.1	204.1	204.1
67.5°	219.7	211.8	198.1	184.4	174.6	164.8	153.0	156.9	158.9
70°	182.4	176.5	160.9	147.1	133.4	121.6	111.8	115.7	117.7
72.5°	149.1	141.2	127.5	111.8	100.1	84.4	78.5	82.3	82.3
75°	115.7	107.8	96.1	80.4	66.7	53.0	53.0	54.9	54.9
77.5°	86.3	78.5	66.7	53.0	41.2	31.4	33.4	33.4	33.4
80°	58.9	53.0	43.2	31.4	21.5	17.7	17.7	17.7	19.6
82.5°	33.4	29.4	23.6	15.7	9.8	9.8	9.8	9.8	9.8
85°	15.7	11.7	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)