

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: P582179

Luminaire Tested: **HCC6W30D010BZ-HM63040835-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W30D010BZ-HM63040835-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

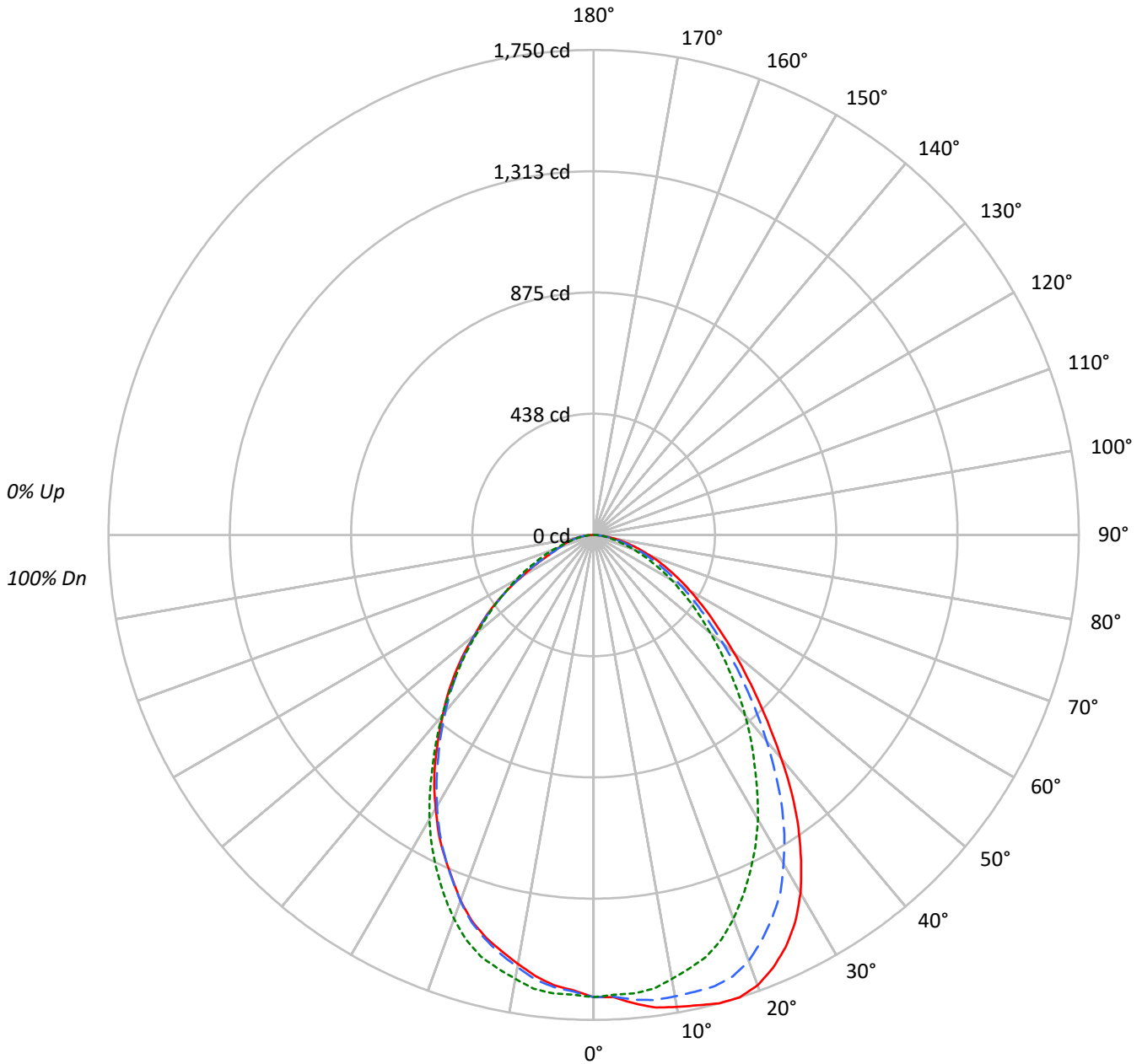
Lumens per Lamp: N/A  
Luminaire Lumens: 3266.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



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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	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	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	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	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	91424	91424	91424
5°	93402	91399	89770
10°	96263	90552	87507
15°	99303	89354	85341
20°	100885	85997	81878
25°	99217	80896	77170
30°	94464	74993	72112
35°	86143	67699	66635
40°	75327	60814	60492
45°	64821	53517	54758
50°	56348	46634	47606
55°	49222	40935	41375
60°	43714	35469	32475
65°	39005	29848	24828
70°	34317	24475	20805
75°	29441	19296	19804
80°	23709	16543	19415
85°	15788	14341	17171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.9	4.8
10°-20°	449.5	13.8
20°-30°	641.7	19.6
30°-40°	672.2	20.6
40°-50°	565.9	17.3
50°-60°	402.8	12.3
60°-70°	235.8	7.2
70°-80°	111.6	3.4
80°-90°	28.7	0.9
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°	1249.1	38.2
0°-40°	1921.3	58.8
0°-60°	2890.0	88.5
0°-90°	3266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1668	1668	1668	1668	1668	
5°	1697	1684	1661	1638	1631	163
15°	1750	1686	1574	1510	1504	494
25°	1640	1524	1337	1274	1276	751
35°	1287	1180	1012	977	996	800
45°	836	775	690	693	706	649
55°	515	472	428	428	433	464
65°	301	267	230	194	191	300
75°	139	116	91	89	94	149
85°	25	20	23	27	27	33
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°	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7
2.5°	1670.0	1670.0	1667.7	1665.4	1660.9	1654.0	1649.5	1645.0	1645.0
5°	1697.3	1692.8	1683.6	1672.3	1660.9	1647.2	1638.1	1631.3	1631.3
7.5°	1720.1	1711.0	1692.8	1672.3	1651.8	1633.6	1617.6	1608.5	1606.2
10°	1729.3	1717.9	1690.5	1658.7	1626.7	1601.7	1583.4	1572.0	1572.0
12.5°	1738.3	1724.6	1688.3	1642.6	1601.7	1567.5	1549.3	1540.1	1537.9
15°	1749.7	1731.5	1686.0	1629.0	1574.4	1535.6	1510.5	1503.7	1503.7
17.5°	1749.7	1726.9	1670.0	1599.3	1531.1	1487.8	1465.0	1458.1	1460.4
20°	1729.3	1704.2	1635.8	1549.3	1474.1	1428.5	1405.8	1401.1	1403.5
22.5°	1690.5	1660.9	1583.4	1490.1	1408.0	1360.1	1339.6	1339.6	1337.4
25°	1640.3	1608.5	1524.2	1426.2	1337.4	1289.5	1273.5	1275.8	1275.8
27.5°	1574.4	1542.4	1458.1	1353.3	1264.5	1216.6	1205.2	1209.8	1212.1
30°	1492.3	1458.1	1369.3	1266.8	1184.7	1136.9	1130.0	1136.9	1139.2
32.5°	1392.1	1367.0	1280.4	1175.6	1098.2	1057.1	1054.9	1061.7	1070.8
35°	1287.2	1259.9	1180.2	1084.5	1011.6	977.4	977.4	988.8	995.7
37.5°	1173.3	1146.0	1073.1	993.3	931.8	900.0	904.5	915.9	918.1
40°	1052.6	1032.1	970.6	902.2	849.8	824.7	831.6	843.0	845.3
42.5°	938.7	920.4	870.3	808.8	770.1	751.8	761.0	774.6	779.2
45°	836.1	815.7	774.6	722.2	690.3	681.2	692.6	701.7	706.3
47.5°	742.8	724.5	690.3	642.5	619.7	615.2	626.5	631.1	635.6
50°	660.7	642.5	608.3	565.0	546.8	546.8	555.9	560.5	558.2
52.5°	580.9	565.0	533.1	496.6	485.2	485.2	492.1	494.4	498.9
55°	515.0	498.9	471.6	437.4	428.3	423.8	428.3	428.3	432.9
57.5°	453.4	439.7	414.6	382.7	371.3	366.8	364.5	362.3	366.8
60°	398.7	387.3	360.0	332.7	323.5	312.1	303.0	293.9	296.2
62.5°	348.6	337.2	312.1	284.8	275.7	259.7	248.4	237.0	241.5
65°	300.7	289.4	266.6	243.7	230.1	211.9	193.7	186.8	191.4
67.5°	257.4	248.4	225.6	202.7	191.4	170.9	152.7	152.7	154.9
70°	214.1	205.1	186.8	166.3	152.7	134.5	127.6	129.8	129.8
72.5°	175.4	168.6	150.4	132.1	118.4	107.1	107.1	109.4	111.6
75°	139.0	134.5	116.2	100.2	91.1	84.3	88.8	91.1	93.5
77.5°	107.1	100.2	86.6	75.1	68.4	70.6	75.1	77.4	79.8
80°	75.1	72.9	61.5	54.7	52.4	54.7	59.2	61.5	61.5
82.5°	47.8	45.5	38.8	36.5	36.5	38.8	43.3	43.3	43.3
85°	25.1	22.8	20.5	20.5	22.8	25.1	27.3	27.3	27.3
87.5°	9.2	6.8	9.2	9.2	11.4	11.4	11.4	11.4	11.4
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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