

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: P582287

Luminaire Tested: **HCC6W35D010BZ-HM63040827-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582287  
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: HCC6W35D010BZ-HM63040827-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

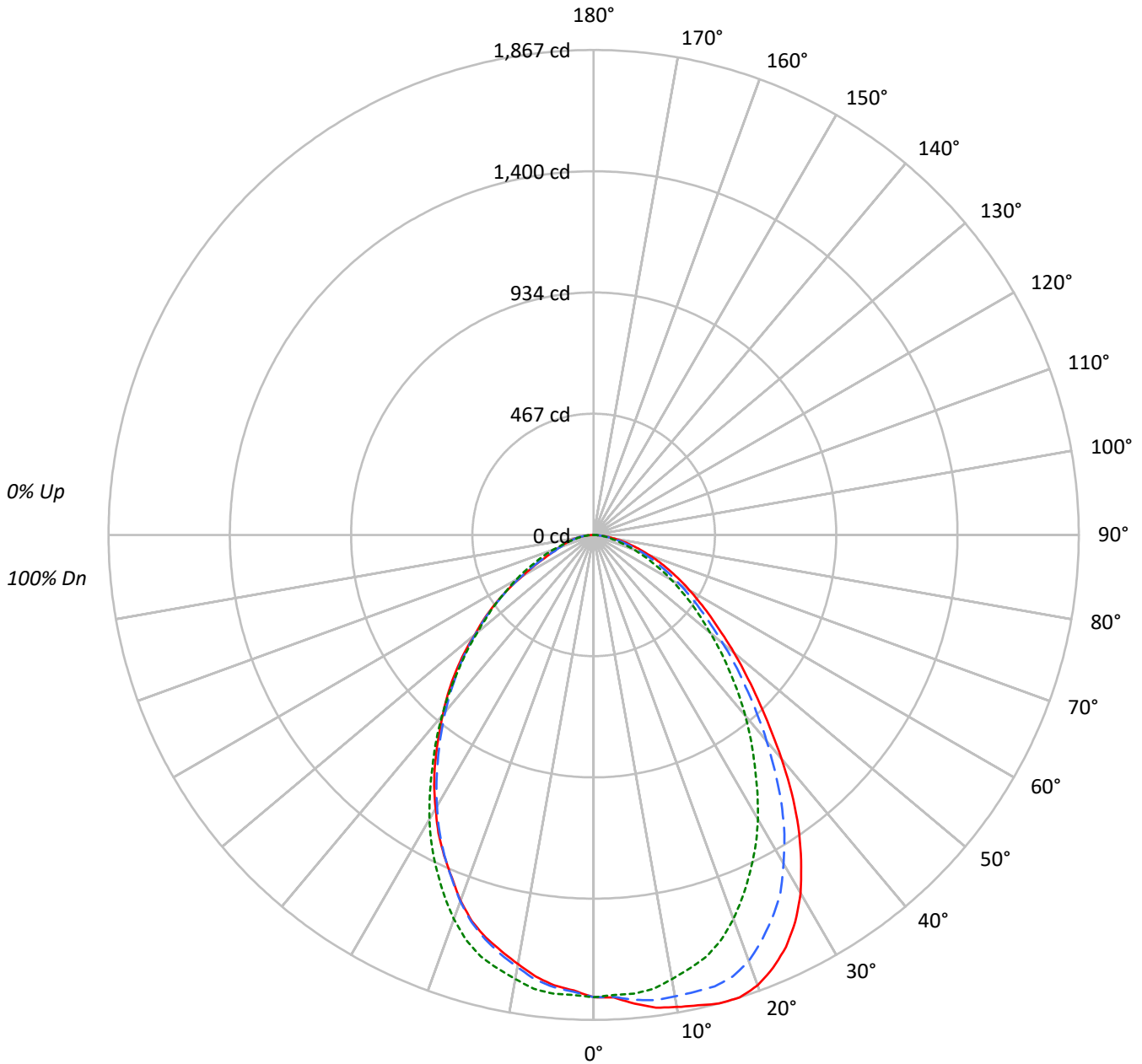
Lumens per Lamp: N/A  
Luminaire Lumens: 3485.5 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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	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°	97569	97569	97569
5°	99681	97545	95801
10°	102731	96636	93391
15°	105977	95352	91073
20°	107664	91772	87373
25°	105889	86328	82366
30°	100813	80031	76961
35°	91939	72250	71112
40°	80393	64900	64557
45°	69178	57114	58440
50°	60134	49764	50813
55°	52519	43688	44156
60°	46652	37859	34657
65°	41626	31845	26488
70°	36625	26110	22215
75°	31411	20588	21117
80°	25350	17647	20741
85°	16794	15284	18367



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.5	4.8
10°-20°	479.7	13.8
20°-30°	684.8	19.6
30°-40°	717.3	20.6
40°-50°	604.0	17.3
50°-60°	429.9	12.3
60°-70°	251.6	7.2
70°-80°	119.1	3.4
80°-90°	30.6	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°	1333.1	38.2
0°-40°	2050.4	58.8
0°-60°	3084.2	88.5
0°-90°	3485.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1780	1780	1780	1780	1780	
5°	1811	1797	1773	1748	1741	174
15°	1867	1799	1680	1612	1605	527
25°	1751	1627	1427	1359	1362	801
35°	1374	1260	1080	1043	1063	853
45°	892	827	737	739	754	693
55°	550	503	457	457	462	495
65°	321	284	246	207	204	320
75°	148	124	97	95	100	159
85°	27	22	24	29	29	35
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°	1779.8	1779.8	1779.8	1779.8	1779.8	1779.8	1779.8	1779.8	1779.8
2.5°	1782.2	1782.2	1779.8	1777.3	1772.6	1765.2	1760.4	1755.5	1755.5
5°	1811.4	1806.5	1796.8	1784.7	1772.6	1758.0	1748.2	1740.9	1740.9
7.5°	1835.7	1826.0	1806.5	1784.7	1762.8	1743.4	1726.3	1716.7	1714.2
10°	1845.5	1833.4	1804.2	1770.1	1736.0	1709.3	1689.8	1677.7	1677.7
12.5°	1855.2	1840.6	1801.7	1753.1	1709.3	1672.8	1653.4	1643.6	1641.3
15°	1867.3	1847.9	1799.3	1738.5	1680.1	1638.8	1612.1	1604.7	1604.7
17.5°	1867.3	1843.0	1782.2	1706.9	1633.9	1587.7	1563.4	1556.1	1558.5
20°	1845.5	1818.8	1745.8	1653.4	1573.1	1524.6	1500.2	1495.4	1497.7
22.5°	1804.2	1772.6	1689.8	1590.2	1502.6	1451.6	1429.7	1429.7	1427.2
25°	1750.6	1716.7	1626.7	1522.1	1427.2	1376.2	1359.2	1361.7	1361.7
27.5°	1680.1	1646.1	1556.1	1444.3	1349.4	1298.4	1286.3	1291.1	1293.5
30°	1592.6	1556.1	1461.3	1351.9	1264.3	1213.3	1206.0	1213.3	1215.8
32.5°	1485.6	1458.9	1366.4	1254.6	1171.9	1128.1	1125.8	1133.0	1142.7
35°	1373.8	1344.6	1259.5	1157.3	1079.6	1043.1	1043.1	1055.2	1062.6
37.5°	1252.2	1223.0	1145.2	1060.1	994.5	960.4	965.2	977.5	979.9
40°	1123.4	1101.4	1035.8	962.9	906.9	880.2	887.5	899.6	902.1
42.5°	1001.8	982.3	928.8	863.1	821.8	802.4	812.1	826.7	831.6
45°	892.3	870.5	826.7	770.8	736.7	727.0	739.2	748.9	753.8
47.5°	792.6	773.3	736.7	685.6	661.3	656.4	668.7	673.5	678.4
50°	705.1	685.6	649.2	603.0	583.5	583.5	593.3	598.1	595.8
52.5°	620.0	603.0	568.9	530.1	517.9	517.9	525.2	527.6	532.5
55°	549.5	532.5	503.3	466.8	457.1	452.2	457.1	457.1	462.0
57.5°	483.8	469.3	442.5	408.4	396.3	391.4	389.1	386.6	391.4
60°	425.5	413.4	384.2	355.0	345.3	333.1	323.4	313.7	316.1
62.5°	372.0	359.9	333.1	303.9	294.2	277.2	265.0	252.9	257.8
65°	320.9	308.8	284.5	260.1	245.5	226.2	206.7	199.3	204.2
67.5°	274.7	265.0	240.8	216.4	204.2	182.4	162.9	162.9	165.4
70°	228.5	218.8	199.3	177.5	162.9	143.4	136.2	138.6	138.6
72.5°	187.2	180.0	160.5	141.0	126.4	114.2	114.2	116.7	119.2
75°	148.3	143.4	124.1	107.0	97.2	90.0	94.9	97.2	99.7
77.5°	114.2	107.0	92.4	80.3	72.9	75.4	80.3	82.6	85.1
80°	80.3	77.8	65.7	58.4	55.9	58.4	63.3	65.7	65.7
82.5°	51.1	48.7	41.3	38.9	38.9	41.3	46.2	46.2	46.2
85°	26.7	24.3	21.9	21.9	24.3	26.7	29.2	29.2	29.2
87.5°	9.7	7.4	9.7	9.7	12.1	12.1	12.1	12.1	12.1
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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