

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: P582303

Luminaire Tested: **HCC6S35D010BZ-HM63040830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S35D010BZ-HM63040830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

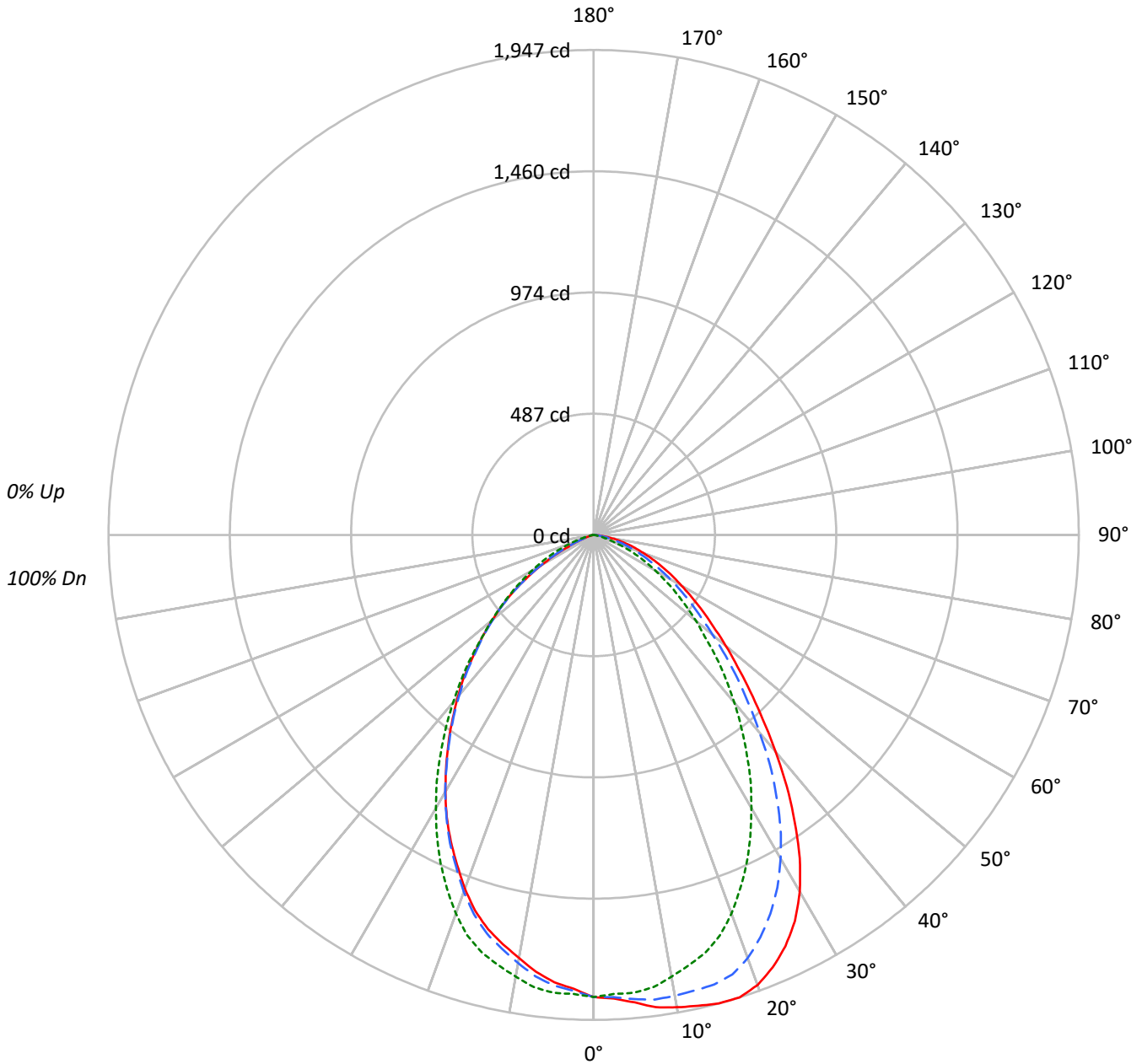
Lumens per Lamp: N/A
Luminaire Lumens: 3306.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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



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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				
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89				
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69				
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61				
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37				
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	101708	101708	101708
5°	103676	101519	99224
10°	107196	100221	96012
15°	110477	98480	93003
20°	112191	94380	88138
25°	110166	87912	82075
30°	104719	80107	75322
35°	94127	71594	67934
40°	81224	62746	60692
45°	68782	54013	52602
50°	58966	45627	45175
55°	51133	38402	36911
60°	44624	31182	26325
65°	39265	24036	14541
70°	33868	15900	7101
75°	28742	7731	2775
80°	22257	3283	1673
85°	13146	1635	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	5.3
10°-20°	495.1	15.0
20°-30°	697.2	21.1
30°-40°	712.3	21.5
40°-50°	574.4	17.4
50°-60°	385.2	11.7
60°-70°	194.9	5.9
70°-80°	62.3	1.9
80°-90°	9.6	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°	1367.4	41.4
0°-40°	2079.7	62.9
0°-60°	3039.3	91.9
0°-90°	3306.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1855	1855	1855	1855	1855	
5°	1884	1871	1845	1816	1803	181
15°	1947	1868	1735	1657	1639	550
25°	1821	1678	1453	1365	1357	834
35°	1406	1279	1070	1010	1015	875
45°	887	817	697	673	678	690
55°	535	475	402	384	386	481
65°	303	251	185	123	112	302
75°	136	96	36	13	13	146
85°	21	10	3	3	3	28
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°	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3
2.5°	1863.1	1860.4	1857.9	1852.6	1844.8	1837.0	1831.7	1826.6	1823.9
5°	1884.0	1878.8	1870.9	1860.4	1844.8	1826.6	1816.1	1805.7	1803.1
7.5°	1912.7	1902.2	1881.3	1857.9	1831.7	1805.7	1787.4	1777.0	1769.2
10°	1925.7	1907.5	1878.8	1839.7	1800.4	1769.2	1745.7	1730.0	1724.8
12.5°	1936.2	1915.3	1873.5	1821.3	1769.2	1727.4	1701.3	1688.3	1683.0
15°	1946.6	1925.7	1868.4	1800.4	1735.2	1685.6	1656.9	1644.0	1638.7
17.5°	1946.6	1917.8	1850.0	1763.9	1685.6	1625.6	1596.9	1583.9	1581.3
20°	1923.1	1891.8	1808.3	1706.5	1617.8	1550.0	1523.9	1516.0	1510.8
22.5°	1878.8	1842.2	1748.3	1633.4	1536.9	1471.7	1443.0	1437.7	1432.5
25°	1821.3	1784.8	1677.8	1555.1	1453.4	1388.1	1364.7	1359.4	1356.9
27.5°	1748.3	1709.2	1596.9	1471.7	1362.1	1299.5	1278.6	1278.6	1276.0
30°	1654.3	1610.0	1500.4	1375.2	1265.5	1208.2	1192.4	1192.4	1189.9
32.5°	1539.5	1495.2	1396.0	1276.0	1171.6	1111.6	1098.5	1103.7	1101.2
35°	1406.5	1369.9	1278.6	1161.2	1069.8	1015.1	1009.8	1015.1	1015.1
37.5°	1273.4	1239.5	1161.2	1059.4	973.3	923.7	923.7	931.5	928.9
40°	1135.0	1109.0	1035.9	947.3	876.8	842.8	837.6	845.5	848.1
42.5°	1004.6	983.8	921.1	848.1	785.4	751.5	759.4	764.5	767.2
45°	887.2	866.3	816.8	741.0	696.7	673.2	673.2	681.1	678.5
47.5°	782.8	767.2	717.6	644.5	605.3	594.9	600.2	605.3	605.3
50°	691.4	668.0	621.1	563.7	535.0	521.9	527.1	529.7	529.7
52.5°	605.3	589.7	542.8	490.6	464.5	456.6	456.6	459.2	459.2
55°	535.0	516.6	474.9	422.7	401.8	391.4	383.6	381.0	386.2
57.5°	467.0	451.4	412.3	362.7	339.2	328.7	313.1	307.9	313.1
60°	407.0	394.0	354.9	307.9	284.4	263.5	245.3	234.8	240.1
62.5°	354.9	339.2	300.0	260.9	234.8	211.3	182.6	167.0	174.8
65°	302.7	289.6	250.6	211.3	185.3	156.6	122.7	112.1	112.1
67.5°	255.7	242.6	206.1	172.2	140.9	107.0	75.6	73.1	75.6
70°	211.3	198.3	167.0	133.0	99.2	65.2	44.3	44.3	44.3
72.5°	174.8	159.2	130.5	96.5	62.7	34.0	23.5	26.1	26.1
75°	135.7	122.7	96.5	65.2	36.5	15.6	13.1	13.1	13.1
77.5°	101.8	91.4	67.8	41.8	18.3	5.3	5.3	5.3	5.3
80°	70.5	60.0	44.3	26.1	10.4	5.3	5.3	5.3	5.3
82.5°	41.8	36.5	26.1	13.1	5.3	2.6	2.6	2.6	2.6
85°	20.9	18.3	10.4	5.3	2.6	2.6	2.6	2.6	2.6
87.5°	5.3	5.3	2.6	2.6	0.0	2.6	2.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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