

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: P584691

Luminaire Tested: **HCC8W45D010BZ-HM82555835-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555835-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.5 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

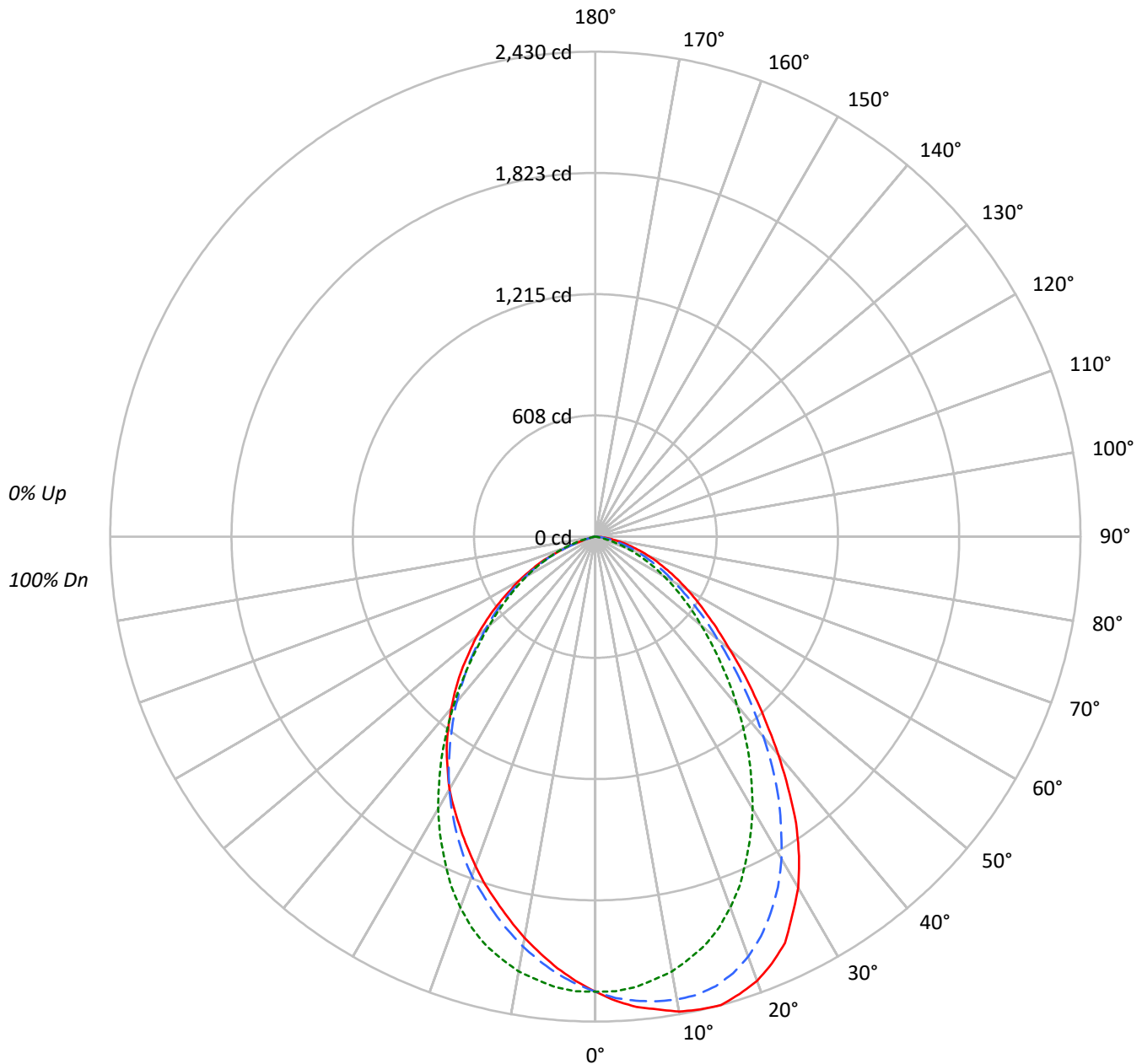
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47		
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39		
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	70316	70316	70316
5°	73222	70164	67208
10°	75669	69268	63930
15°	77582	67682	60608
20°	77736	64876	57604
25°	76425	60767	54622
30°	72335	56073	52068
35°	65953	50428	48885
40°	57350	44456	45141
45°	49200	38498	41320
50°	42024	33197	37117
55°	36832	28585	32252
60°	32791	24385	27111
65°	29098	19898	21634
70°	25813	14750	12289
75°	21517	7709	3658
80°	16959	2415	604
85°	12065	1203	0

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	5.1
10°-20°	602.2	14.2
20°-30°	852.4	20.1
30°-40°	891.8	21.0
40°-50°	743.8	17.5
50°-60°	527.4	12.4
60°-70°	303.8	7.2
70°-80°	97.8	2.3
80°-90°	13.4	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°	1669.5	39.3
0°-40°	2561.2	60.3
0°-60°	3832.5	90.2
0°-90°	4247.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2280	2280	2280	2280	2280	
5°	2366	2335	2267	2198	2171	227
15°	2430	2332	2120	1953	1898	683
25°	2246	2079	1786	1643	1605	1025
35°	1752	1599	1340	1268	1299	1086
45°	1128	1036	883	893	948	874
55°	685	614	532	559	600	619
65°	399	334	273	273	296	399
75°	181	133	65	31	31	196
85°	34	17	3	0	0	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3
2.5°	2328.1	2324.7	2321.2	2324.7	2321.2	2324.7	2321.2	2321.2	2317.7	2314.3	2314.3
5°	2365.5	2362.1	2362.1	2362.1	2358.7	2355.3	2355.3	2351.9	2345.1	2341.7	2334.9
7.5°	2389.4	2392.8	2392.8	2392.8	2386.0	2386.0	2379.2	2372.3	2365.5	2358.7	2348.5
10°	2416.6	2416.6	2413.2	2409.8	2403.0	2399.6	2396.2	2389.4	2379.2	2365.5	2355.3
12.5°	2426.8	2426.8	2423.4	2416.6	2413.2	2409.8	2406.4	2396.2	2382.6	2365.5	2351.9
15°	2430.2	2423.4	2420.0	2416.6	2409.8	2399.6	2399.6	2386.0	2368.9	2348.5	2331.5
17.5°	2403.0	2406.4	2399.6	2392.8	2382.6	2375.7	2365.5	2355.3	2334.9	2310.9	2293.9
20°	2368.9	2365.5	2362.1	2351.9	2338.3	2334.9	2324.7	2307.5	2290.5	2263.3	2239.4
22.5°	2314.3	2310.9	2304.1	2297.3	2283.7	2276.9	2266.7	2246.2	2222.4	2195.0	2167.8
25°	2246.2	2239.4	2229.2	2215.6	2205.4	2198.4	2184.8	2164.4	2137.1	2106.5	2079.1
27.5°	2137.1	2147.4	2140.5	2120.1	2109.9	2096.3	2092.9	2065.5	2041.7	2011.0	1980.4
30°	2031.5	2031.5	2021.2	2011.0	1994.0	1983.8	1970.2	1949.6	1925.8	1888.3	1864.5
32.5°	1898.5	1895.1	1881.5	1878.1	1864.5	1844.0	1840.6	1813.3	1789.4	1762.2	1731.5
35°	1752.0	1745.2	1731.5	1721.3	1714.5	1704.3	1694.0	1670.1	1646.3	1619.1	1598.6
37.5°	1585.0	1585.0	1581.6	1564.5	1557.7	1550.8	1540.6	1516.8	1503.2	1475.9	1455.5
40°	1424.7	1421.3	1411.1	1407.7	1400.9	1390.7	1383.9	1370.2	1349.8	1329.4	1308.8
42.5°	1268.0	1271.4	1257.7	1261.1	1247.5	1240.7	1237.3	1216.9	1206.7	1186.1	1169.1
45°	1128.2	1124.8	1118.0	1114.6	1107.8	1101.0	1094.2	1083.9	1066.8	1046.4	1036.2
47.5°	998.7	988.5	988.5	985.1	981.7	968.0	964.6	954.4	944.1	923.7	910.0
50°	876.0	876.0	876.0	872.6	862.4	859.0	852.2	841.9	831.7	818.1	797.6
52.5°	777.1	777.1	777.1	773.7	760.1	756.7	753.3	739.7	726.0	715.8	702.2
55°	685.1	688.6	685.1	678.3	668.0	668.0	657.8	651.0	637.4	627.2	613.5
57.5°	606.7	606.7	599.9	596.5	589.7	586.3	579.5	572.7	555.5	545.3	528.3
60°	531.7	528.3	528.3	521.5	514.7	507.9	504.5	494.2	487.4	470.4	456.8
62.5°	463.6	463.6	456.8	456.8	443.2	443.2	439.6	429.4	419.2	402.2	395.4
65°	398.8	398.8	395.4	392.0	381.8	378.3	374.9	364.7	354.5	344.3	334.1
67.5°	340.9	340.9	334.1	330.7	323.9	320.3	313.5	306.7	296.5	286.3	276.1
70°	286.3	282.9	279.5	276.1	269.3	265.9	259.0	252.2	242.0	235.2	225.0
72.5°	231.8	231.8	228.4	221.6	218.2	214.8	211.4	204.5	194.2	184.0	177.2
75°	180.6	180.6	180.6	173.8	167.0	163.6	163.6	156.8	150.0	139.7	132.9
77.5°	139.7	136.3	132.9	132.9	126.1	122.7	119.3	115.9	105.7	102.3	95.5
80°	95.5	98.9	95.5	92.1	88.7	85.2	85.2	78.4	75.0	68.2	61.3
82.5°	64.7	61.3	61.3	57.9	57.9	54.5	54.5	47.7	44.3	40.9	37.5
85°	34.1	34.1	30.7	30.7	30.7	27.2	27.2	23.8	23.8	20.4	17.0
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3
2.5°	2310.9	2304.1	2300.7	2300.7	2297.3	2293.9	2290.5	2287.1	2280.3	2280.3	2273.5
5°	2328.1	2321.2	2317.7	2307.5	2300.7	2300.7	2287.1	2283.7	2273.5	2266.7	2259.8
7.5°	2341.7	2328.1	2317.7	2307.5	2300.7	2293.9	2280.3	2266.7	2253.0	2239.4	2232.6
10°	2341.7	2328.1	2310.9	2293.9	2287.1	2280.3	2263.3	2242.8	2225.8	2212.2	2195.0
12.5°	2334.9	2314.3	2293.9	2280.3	2266.7	2256.4	2236.0	2215.6	2195.0	2167.8	2154.2
15°	2314.3	2287.1	2266.7	2242.8	2232.6	2215.6	2198.4	2167.8	2144.0	2120.1	2103.1
17.5°	2273.5	2239.4	2215.6	2191.6	2174.6	2164.4	2137.1	2109.9	2082.5	2055.3	2034.9
20°	2212.2	2181.4	2154.2	2123.5	2109.9	2096.3	2062.1	2034.9	2007.6	1977.0	1956.4
22.5°	2137.1	2106.5	2068.9	2045.1	2024.6	2007.6	1977.0	1946.2	1919.0	1891.7	1864.5
25°	2045.1	2014.4	1980.4	1942.8	1929.2	1912.2	1878.1	1847.4	1816.7	1786.0	1762.2
27.5°	1946.2	1905.3	1878.1	1837.2	1823.5	1806.5	1769.0	1735.0	1707.7	1683.8	1656.5
30°	1826.9	1796.3	1758.8	1721.3	1707.7	1690.6	1659.9	1629.3	1602.0	1574.8	1547.4
32.5°	1697.4	1666.7	1629.3	1602.0	1581.6	1567.9	1537.2	1510.0	1482.7	1455.5	1431.5
35°	1561.1	1527.0	1499.8	1472.5	1455.5	1438.3	1407.7	1383.9	1363.4	1339.6	1315.6
37.5°	1421.3	1397.5	1370.2	1339.6	1322.6	1308.8	1285.0	1257.7	1240.7	1220.3	1203.1
40°	1285.0	1257.7	1233.9	1206.7	1192.9	1182.7	1158.9	1138.4	1121.4	1104.4	1094.2
42.5°	1145.3	1121.4	1097.6	1080.5	1070.2	1060.0	1043.0	1019.1	1008.9	991.9	981.7
45°	1015.7	995.3	978.3	954.4	947.5	940.7	920.3	903.2	893.0	882.8	876.0
47.5°	893.0	879.4	859.0	845.3	835.1	828.3	814.6	801.0	790.7	783.9	777.1
50°	787.3	770.3	756.7	743.1	736.3	726.0	712.4	705.6	698.8	692.0	692.0
52.5°	688.6	671.4	657.8	647.6	640.8	634.0	623.8	620.4	613.5	613.5	610.1
55°	596.5	586.3	572.7	559.1	555.5	552.1	545.3	538.5	535.1	531.7	535.1
57.5°	518.1	507.9	494.2	484.0	480.6	477.2	473.8	467.0	463.6	463.6	463.6
60°	446.6	436.2	426.0	415.8	415.8	409.0	405.6	402.2	398.8	395.4	395.4
62.5°	381.8	371.5	361.3	354.5	351.1	347.7	340.9	337.5	334.1	334.1	330.7
65°	323.9	310.1	306.7	296.5	293.1	289.7	286.3	279.5	276.1	272.7	269.3
67.5°	265.9	259.0	248.8	242.0	238.6	235.2	231.8	225.0	221.6	218.2	211.4
70°	214.8	208.0	201.1	194.2	190.8	187.4	180.6	173.8	170.4	163.6	153.4
72.5°	167.0	160.2	153.4	146.5	143.1	139.7	132.9	126.1	119.3	112.5	105.7
75°	126.1	119.3	109.1	102.3	98.9	98.9	88.7	81.8	75.0	64.7	57.9
77.5°	88.7	78.4	75.0	68.2	64.7	57.9	51.1	44.3	37.5	34.1	27.2
80°	57.9	51.1	44.3	40.9	37.5	34.1	30.7	23.8	17.0	13.6	10.2
82.5°	34.1	30.7	27.2	23.8	20.4	17.0	13.6	13.6	10.2	6.8	3.4
85°	17.0	13.6	10.2	10.2	6.8	6.8	6.8	3.4	3.4	3.4	3.4
87.5°	6.8	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3
2.5°	2270.1	2266.7	2263.3	2259.8	2259.8	2253.0	2253.0	2249.6	2242.8	2239.4	2239.4
5°	2249.6	2239.4	2232.6	2229.2	2225.8	2215.6	2212.2	2205.4	2198.4	2191.6	2188.2
7.5°	2219.0	2201.8	2195.0	2191.6	2181.4	2171.2	2164.4	2154.2	2144.0	2133.7	2130.3
10°	2181.4	2164.4	2147.4	2140.5	2130.3	2123.5	2109.9	2096.3	2086.1	2075.7	2065.5
12.5°	2133.7	2113.3	2096.3	2089.5	2079.1	2065.5	2045.1	2038.3	2021.2	2014.4	2000.8
15°	2079.1	2055.3	2038.3	2028.1	2017.8	1997.4	1983.8	1970.2	1953.0	1946.2	1932.6
17.5°	2011.0	1983.8	1966.7	1956.4	1949.6	1932.6	1912.2	1895.1	1878.1	1871.3	1861.1
20°	1929.2	1912.2	1888.3	1878.1	1871.3	1850.9	1830.3	1823.5	1809.9	1796.3	1786.0
22.5°	1837.2	1820.1	1796.3	1786.0	1782.6	1765.6	1748.6	1738.4	1728.1	1717.9	1707.7
25°	1741.8	1721.3	1700.8	1694.0	1687.2	1673.6	1659.9	1653.1	1642.9	1636.1	1629.3
27.5°	1639.5	1619.1	1602.0	1591.8	1585.0	1574.8	1567.9	1561.1	1554.2	1547.4	1544.0
30°	1530.4	1510.0	1496.3	1489.5	1482.7	1479.3	1469.1	1465.7	1462.3	1455.5	1458.9
32.5°	1421.3	1404.3	1390.7	1380.5	1380.5	1373.6	1370.2	1370.2	1366.8	1366.8	1366.8
35°	1302.0	1291.8	1281.6	1278.2	1274.8	1271.4	1268.0	1271.4	1268.0	1271.4	1274.8
37.5°	1192.9	1182.7	1175.9	1172.5	1169.1	1172.5	1169.1	1169.1	1172.5	1179.3	1182.7
40°	1080.5	1073.6	1066.8	1070.2	1066.8	1066.8	1066.8	1077.0	1080.5	1083.9	1087.4
42.5°	974.9	968.0	964.6	964.6	968.0	964.6	971.5	974.9	981.7	991.9	998.7
45°	872.6	869.2	869.2	872.6	869.2	876.0	876.0	882.8	893.0	899.8	906.6
47.5°	777.1	777.1	777.1	780.5	780.5	783.9	790.7	794.2	801.0	807.8	814.6
50°	688.6	692.0	695.4	695.4	695.4	702.2	709.0	712.4	715.8	719.2	729.4
52.5°	610.1	613.5	613.5	617.0	620.4	623.8	627.2	634.0	637.4	644.2	647.6
55°	535.1	535.1	541.9	545.3	545.3	545.3	552.1	552.1	559.1	562.5	569.3
57.5°	463.6	467.0	467.0	470.4	470.4	473.8	477.2	480.6	484.0	487.4	490.8
60°	395.4	395.4	395.4	398.8	402.2	405.6	402.2	409.0	409.0	415.8	419.2
62.5°	330.7	334.1	334.1	334.1	334.1	334.1	334.1	337.5	340.9	344.3	347.7
65°	269.3	269.3	269.3	265.9	269.3	265.9	269.3	272.7	272.7	276.1	279.5
67.5°	208.0	208.0	201.1	201.1	204.5	204.5	204.5	204.5	201.1	208.0	208.0
70°	150.0	146.5	143.1	139.7	139.7	136.3	136.3	132.9	132.9	132.9	132.9
72.5°	98.9	92.1	85.2	81.8	78.4	78.4	71.6	68.2	71.6	71.6	71.6
75°	51.1	44.3	40.9	37.5	34.1	34.1	30.7	30.7	30.7	30.7	30.7
77.5°	20.4	17.0	13.6	13.6	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	6.8	6.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	3.4	0.0	0.0	3.4	0.0	3.4	3.4	3.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584691

CATALOG NUMBER: HCC8W45D010BZ-HM82555835-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3	2280.3
2.5°	2236.0	2236.0	2232.6	2236.0	2229.2	2232.6	2229.2	2229.2
5°	2184.8	2178.0	2178.0	2178.0	2174.6	2174.6	2171.2	2171.2
7.5°	2123.5	2120.1	2116.7	2113.3	2109.9	2106.5	2106.5	2106.5
10°	2062.1	2055.3	2055.3	2051.9	2045.1	2041.7	2041.7	2041.7
12.5°	1990.6	1987.2	1983.8	1983.8	1970.2	1973.6	1970.2	1970.2
15°	1922.4	1919.0	1919.0	1908.8	1901.9	1901.9	1901.9	1898.5
17.5°	1850.9	1847.4	1844.0	1837.2	1830.3	1830.3	1826.9	1830.3
20°	1775.8	1772.4	1765.6	1765.6	1762.2	1758.8	1752.0	1755.4
22.5°	1700.8	1694.0	1690.6	1690.6	1687.2	1687.2	1680.4	1680.4
25°	1622.5	1619.1	1615.7	1619.1	1612.2	1612.2	1605.4	1605.4
27.5°	1540.6	1537.2	1537.2	1537.2	1533.8	1537.2	1533.8	1533.8
30°	1458.9	1458.9	1455.5	1455.5	1458.9	1455.5	1458.9	1462.3
32.5°	1370.2	1370.2	1373.6	1373.6	1377.0	1377.0	1377.0	1377.0
35°	1278.2	1285.0	1285.0	1288.4	1291.8	1295.2	1295.2	1298.6
37.5°	1192.9	1196.3	1199.7	1203.1	1210.1	1210.1	1210.1	1210.1
40°	1101.0	1104.4	1111.2	1107.8	1121.4	1124.8	1121.4	1121.4
42.5°	1005.5	1012.3	1015.7	1022.5	1025.9	1032.8	1036.2	1036.2
45°	916.9	920.3	927.1	933.9	937.3	947.5	947.5	947.5
47.5°	824.9	831.7	835.1	841.9	845.3	855.6	859.0	855.6
50°	736.3	743.1	749.9	749.9	760.1	763.5	770.3	773.7
52.5°	651.0	654.4	661.2	664.6	671.4	678.3	681.7	685.1
55°	569.3	572.7	579.5	579.5	589.7	593.1	599.9	599.9
57.5°	494.2	497.6	504.5	501.1	507.9	514.7	514.7	511.3
60°	422.6	422.6	422.6	429.4	432.8	436.2	439.6	439.6
62.5°	347.7	354.5	357.9	357.9	361.3	364.7	364.7	361.3
65°	279.5	286.3	289.7	289.7	293.1	293.1	293.1	296.5
67.5°	211.4	211.4	211.4	214.8	211.4	211.4	211.4	211.4
70°	132.9	132.9	132.9	132.9	129.5	132.9	132.9	136.3
72.5°	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
75°	30.7	30.7	30.7	34.1	30.7	30.7	30.7	30.7
77.5°	13.6	10.2	13.6	13.6	10.2	10.2	10.2	10.2
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)