

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: P584965

Luminaire Tested: **HCC8W55D010BZ-HM82555835-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W55D010BZ-HM82555835-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

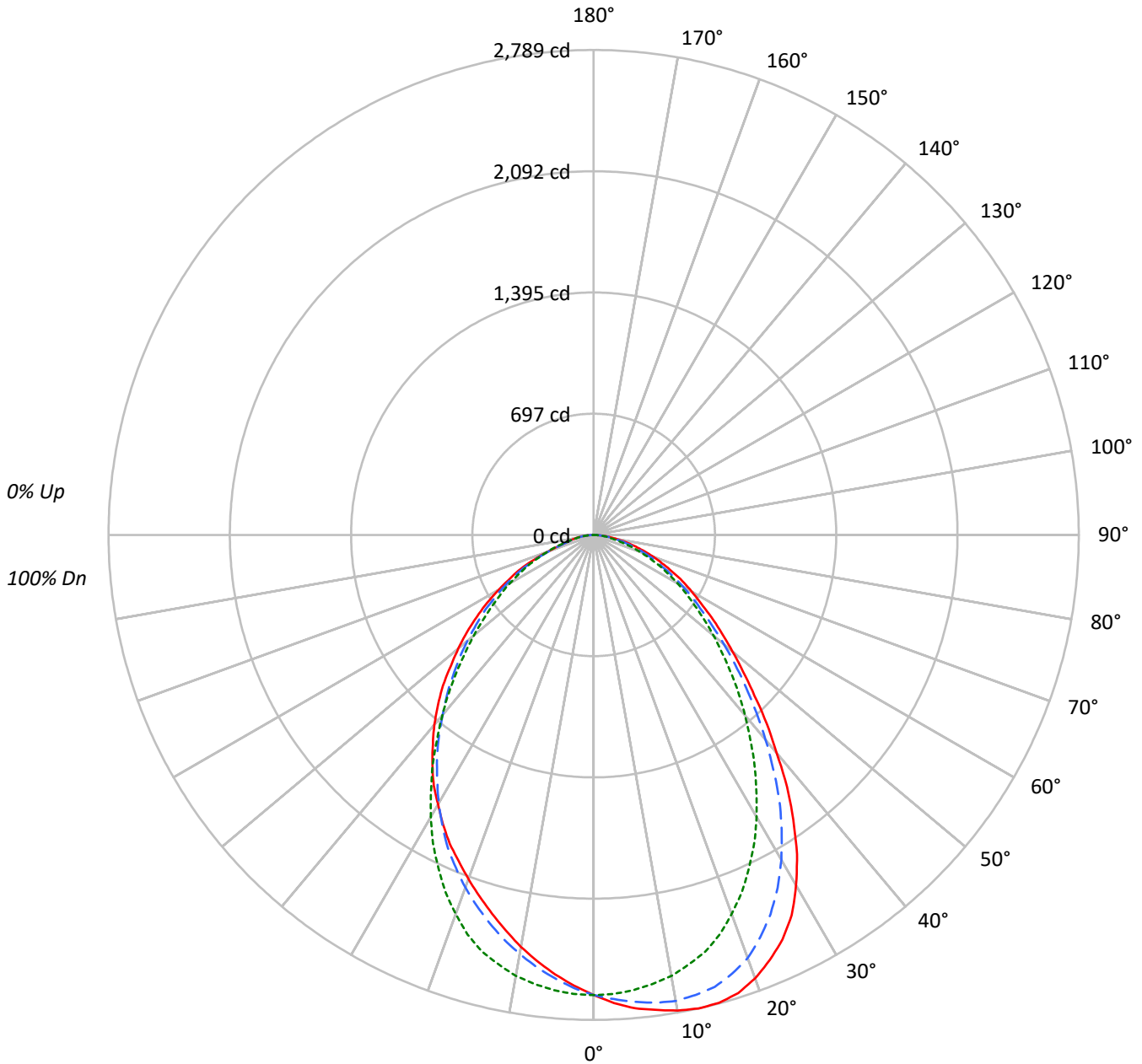
Lumens per Lamp: N/A
Luminaire Lumens: 5322.1 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75					75			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65					65			
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57					57			
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50					50			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40					40			
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37					37			
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33					33			
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	81596	81596	81596
5°	84585	81329	78534
10°	86979	80622	75324
15°	88918	79197	71998
20°	89054	76105	69073
25°	87350	71873	66629
30°	82846	66649	63708
35°	75277	60705	60844
40°	65819	54472	57346
45°	57045	48520	53434
50°	49949	43094	48683
55°	44461	38187	44058
60°	40100	34308	38712
65°	36198	30171	33739
70°	32539	25416	25073
75°	28666	20147	18813
80°	24044	16692	18024
85°	18610	14648	15957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	4.7
10°-20°	703.1	13.2
20°-30°	1004.9	18.9
30°-40°	1067.7	20.1
40°-50°	919.3	17.3
50°-60°	687.3	12.9
60°-70°	438.4	8.2
70°-80°	199.5	3.7
80°-90°	52.4	1.0
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°	1957.6	36.8
0°-40°	3025.3	56.8
0°-60°	4631.8	87.0
0°-90°	5322.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5322.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2646	2646	2646	2646	2646	
5°	2733	2695	2627	2560	2537	262
15°	2785	2691	2481	2312	2255	785
25°	2567	2406	2112	1985	1958	1175
35°	2000	1861	1613	1571	1616	1245
45°	1308	1237	1113	1143	1225	1017
55°	827	759	710	771	820	744
65°	496	440	414	432	462	495
75°	241	207	169	154	158	256
85°	53	45	41	45	45	63
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°	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1
2.5°	2695.0	2687.5	2691.3	2687.5	2691.3	2691.3	2683.8	2683.8	2683.8	2683.8	2672.5
5°	2732.6	2728.9	2728.9	2725.1	2721.4	2725.1	2721.4	2717.6	2710.0	2706.3	2695.0
7.5°	2755.1	2755.1	2755.1	2755.1	2751.4	2747.6	2743.9	2736.4	2728.9	2721.4	2713.8
10°	2777.8	2781.5	2777.8	2774.0	2770.3	2762.6	2758.9	2751.4	2740.1	2728.9	2721.4
12.5°	2789.0	2789.0	2785.3	2785.3	2777.8	2774.0	2762.6	2751.4	2740.1	2728.9	2710.0
15°	2785.3	2785.3	2781.5	2777.8	2766.4	2762.6	2755.1	2743.9	2725.1	2710.0	2691.3
17.5°	2762.6	2758.9	2751.4	2751.4	2736.4	2732.6	2725.1	2710.0	2691.3	2668.8	2646.1
20°	2713.8	2713.8	2710.0	2706.3	2691.3	2680.0	2672.5	2653.6	2638.6	2612.4	2589.8
22.5°	2646.1	2653.6	2646.1	2638.6	2619.9	2616.1	2604.8	2582.3	2559.8	2529.6	2503.3
25°	2567.3	2563.5	2559.8	2552.1	2537.1	2529.6	2514.6	2492.0	2469.5	2435.7	2405.6
27.5°	2465.8	2450.7	2450.7	2435.7	2424.4	2413.1	2405.6	2383.0	2353.0	2326.7	2289.0
30°	2326.7	2330.4	2311.7	2307.9	2289.0	2281.5	2266.5	2244.0	2217.7	2187.5	2157.5
32.5°	2176.3	2165.0	2165.0	2150.0	2134.9	2123.7	2119.9	2093.7	2071.0	2041.0	2010.9
35°	1999.7	1999.7	1988.4	1984.7	1969.5	1962.0	1950.8	1935.8	1909.4	1883.2	1860.6
37.5°	1826.8	1819.3	1815.4	1807.9	1796.7	1785.4	1785.4	1759.1	1755.3	1725.3	1695.2
40°	1635.1	1642.6	1635.1	1623.8	1620.1	1612.6	1608.8	1593.7	1582.4	1556.2	1537.3
42.5°	1473.4	1465.9	1465.9	1462.2	1447.1	1447.1	1439.6	1432.1	1413.3	1405.8	1383.2
45°	1308.1	1315.6	1304.3	1308.1	1293.1	1293.1	1293.1	1277.9	1262.9	1251.7	1236.6
47.5°	1165.2	1169.0	1169.0	1157.7	1154.0	1154.0	1146.5	1138.9	1127.6	1112.6	1101.3
50°	1041.2	1045.0	1037.5	1033.7	1026.1	1022.3	1022.3	1007.3	999.8	984.8	977.3
52.5°	928.5	928.5	924.7	924.7	913.3	913.3	905.8	894.6	887.1	879.6	860.7
55°	827.0	827.0	823.2	819.5	819.5	808.1	804.3	793.1	785.6	770.6	759.2
57.5°	729.2	733.0	729.2	725.5	721.7	718.0	710.3	699.1	691.6	680.3	672.8
60°	650.2	650.2	646.5	642.7	635.2	631.5	627.7	620.2	609.0	601.4	590.1
62.5°	575.1	571.4	567.6	563.8	556.3	556.3	548.7	541.2	530.0	522.5	515.0
65°	496.1	496.1	492.4	492.4	488.6	481.1	477.4	473.6	458.6	454.9	439.7
67.5°	424.7	428.5	421.0	421.0	413.5	413.5	409.7	398.5	394.6	387.1	379.6
70°	360.9	360.9	360.9	357.1	349.6	345.9	342.0	334.5	330.7	323.2	315.7
72.5°	297.0	297.0	293.2	293.2	289.4	285.6	281.9	274.4	274.4	266.9	259.4
75°	240.6	240.6	236.7	233.0	229.2	229.2	225.5	221.7	214.2	210.5	206.7
77.5°	184.1	184.1	184.1	180.4	176.6	176.6	176.6	169.1	161.6	161.6	157.9
80°	135.4	135.4	131.5	131.5	127.7	127.7	127.7	124.0	120.2	116.5	112.7
82.5°	90.2	90.2	90.2	90.2	86.5	86.5	86.5	82.7	78.9	78.9	78.9
85°	52.6	52.6	52.6	52.6	48.9	48.9	48.9	48.9	48.9	45.1	45.1
87.5°	22.5	18.8	22.5	18.8	22.5	18.8	22.5	18.8	18.8	18.8	18.8
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°	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1
2.5°	2676.3	2672.5	2668.8	2665.0	2665.0	2661.1	2653.6	2649.9	2646.1	2642.4	2642.4
5°	2691.3	2687.5	2680.0	2672.5	2668.8	2661.1	2653.6	2646.1	2638.6	2627.4	2623.6
7.5°	2702.5	2691.3	2683.8	2668.8	2665.0	2657.4	2646.1	2634.9	2619.9	2604.8	2593.5
10°	2702.5	2687.5	2676.3	2657.4	2649.9	2642.4	2627.4	2608.5	2589.8	2574.8	2555.9
12.5°	2695.0	2676.3	2657.4	2638.6	2627.4	2616.1	2593.5	2574.8	2552.1	2529.6	2514.6
15°	2668.8	2646.1	2623.6	2601.0	2589.8	2574.8	2552.1	2525.9	2503.3	2480.8	2454.5
17.5°	2619.9	2597.3	2571.0	2544.6	2529.6	2518.4	2484.5	2465.8	2431.9	2409.4	2386.8
20°	2555.9	2529.6	2495.8	2469.5	2450.7	2439.4	2413.1	2379.3	2353.0	2319.2	2296.7
22.5°	2473.3	2439.4	2405.6	2379.3	2360.5	2345.4	2311.7	2277.8	2255.3	2225.2	2198.9
25°	2375.5	2341.7	2307.9	2270.3	2251.5	2236.4	2206.4	2176.3	2146.3	2112.4	2089.9
27.5°	2259.0	2221.4	2191.4	2157.5	2138.8	2116.2	2082.3	2052.3	2022.2	1999.7	1969.5
30°	2131.2	2089.9	2059.8	2025.9	2007.2	1988.4	1954.5	1924.4	1898.2	1871.8	1856.8
32.5°	1977.0	1947.0	1916.9	1883.2	1868.1	1856.8	1823.0	1792.9	1762.8	1740.3	1729.1
35°	1830.5	1796.7	1770.4	1740.3	1721.6	1710.2	1680.2	1653.8	1638.8	1612.6	1597.4
37.5°	1676.4	1650.1	1620.1	1589.9	1578.7	1567.4	1544.8	1518.6	1495.9	1477.2	1469.7
40°	1514.8	1492.2	1465.9	1447.1	1435.8	1424.6	1405.8	1386.9	1371.9	1353.2	1345.7
42.5°	1360.7	1345.7	1323.1	1300.6	1289.2	1285.4	1262.9	1247.9	1240.4	1232.8	1225.3
45°	1221.6	1199.1	1184.0	1169.0	1157.7	1150.2	1138.9	1127.6	1120.1	1112.6	1105.1
47.5°	1086.3	1067.5	1052.5	1041.2	1030.0	1026.1	1018.6	1007.3	999.8	999.8	999.8
50°	962.2	947.2	932.2	924.7	920.8	913.3	905.8	902.1	898.3	898.3	898.3
52.5°	853.2	838.2	827.0	819.5	819.5	811.8	804.3	800.6	800.6	800.6	800.6
55°	751.7	740.5	733.0	725.5	718.0	714.2	714.2	714.2	710.3	710.3	714.2
57.5°	661.6	654.0	642.7	635.2	631.5	631.5	627.7	624.0	627.7	631.5	635.2
60°	578.9	571.4	567.6	556.3	556.3	556.3	552.5	552.5	552.5	556.3	560.1
62.5°	503.7	499.9	492.4	488.6	484.9	484.9	481.1	481.1	481.1	481.1	484.9
65°	436.0	428.5	421.0	421.0	421.0	417.2	417.2	409.7	413.5	413.5	409.7
67.5°	372.1	364.6	360.9	357.1	353.4	353.4	349.6	345.9	342.0	342.0	342.0
70°	312.0	304.5	304.5	297.0	297.0	293.2	289.4	289.4	285.6	281.9	278.1
72.5°	251.9	248.1	244.4	240.6	240.6	240.6	236.7	233.0	229.2	225.5	218.0
75°	199.2	199.2	191.7	188.0	188.0	184.1	180.4	176.6	172.9	169.1	165.4
77.5°	154.1	150.4	142.9	139.1	139.1	139.1	135.4	131.5	127.7	124.0	120.2
80°	112.7	109.0	105.2	101.5	101.5	101.5	97.7	97.7	94.0	94.0	94.0
82.5°	75.1	75.1	71.4	71.4	71.4	71.4	67.6	67.6	67.6	67.6	67.6
85°	45.1	45.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
87.5°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1
2.5°	2634.9	2634.9	2627.4	2623.6	2619.9	2623.6	2616.1	2612.4	2608.5	2608.5	2604.8
5°	2612.4	2608.5	2593.5	2589.8	2586.0	2582.3	2574.8	2567.3	2559.8	2555.9	2552.1
7.5°	2582.3	2571.0	2555.9	2552.1	2548.4	2537.1	2525.9	2518.4	2507.1	2503.3	2495.8
10°	2540.9	2525.9	2514.6	2503.3	2495.8	2484.5	2473.3	2462.0	2446.9	2443.2	2431.9
12.5°	2492.0	2473.3	2450.7	2446.9	2435.7	2420.6	2405.6	2394.3	2383.0	2375.5	2364.3
15°	2431.9	2413.1	2390.5	2379.3	2368.0	2356.8	2337.9	2322.9	2311.7	2300.4	2289.0
17.5°	2360.5	2337.9	2319.2	2307.9	2300.4	2281.5	2266.5	2247.8	2236.4	2225.2	2213.9
20°	2274.0	2255.3	2228.9	2217.7	2213.9	2198.9	2180.0	2172.5	2157.5	2146.3	2138.8
22.5°	2176.3	2157.5	2134.9	2127.4	2112.4	2104.9	2086.2	2078.5	2071.0	2059.8	2056.0
25°	2067.3	2048.5	2029.7	2025.9	2014.7	2007.2	1995.9	1984.7	1984.7	1973.3	1973.3
27.5°	1954.5	1935.8	1920.7	1913.2	1909.4	1901.9	1890.7	1886.9	1883.2	1879.4	1879.4
30°	1834.3	1811.7	1804.2	1800.4	1796.7	1789.2	1785.4	1777.9	1781.7	1785.4	1781.7
32.5°	1706.4	1698.9	1683.9	1676.4	1680.2	1676.4	1668.9	1676.4	1672.7	1680.2	1683.9
35°	1582.4	1574.9	1567.4	1567.4	1559.9	1559.9	1559.9	1563.7	1571.2	1574.9	1582.4
37.5°	1462.2	1450.9	1447.1	1443.3	1447.1	1447.1	1447.1	1454.7	1462.2	1469.7	1480.9
40°	1334.3	1326.8	1326.8	1326.8	1326.8	1338.1	1334.3	1341.8	1349.4	1360.7	1371.9
42.5°	1214.1	1214.1	1217.8	1217.8	1217.8	1217.8	1225.3	1236.6	1247.9	1259.2	1270.4
45°	1101.3	1101.3	1101.3	1108.8	1108.8	1112.6	1127.6	1135.2	1142.7	1154.0	1165.2
47.5°	996.1	996.1	999.8	1003.6	1007.3	1014.8	1022.3	1033.7	1045.0	1052.5	1063.7
50°	898.3	902.1	909.6	917.1	917.1	920.8	932.2	939.7	947.2	958.5	962.2
52.5°	804.3	811.8	819.5	823.2	827.0	834.5	838.2	849.5	853.2	864.5	868.2
55°	718.0	721.7	733.0	736.7	736.7	744.2	751.7	759.2	770.6	770.6	778.1
57.5°	639.0	642.7	650.2	654.0	650.2	661.6	665.3	672.8	676.6	684.1	687.8
60°	560.1	567.6	571.4	571.4	575.1	578.9	586.4	586.4	593.9	601.4	601.4
62.5°	484.9	488.6	492.4	496.1	499.9	496.1	507.5	507.5	515.0	518.7	526.2
65°	413.5	417.2	417.2	421.0	421.0	424.7	424.7	428.5	432.2	439.7	443.5
67.5°	342.0	342.0	342.0	345.9	342.0	345.9	345.9	349.6	349.6	357.1	360.9
70°	278.1	274.4	270.6	270.6	270.6	270.6	266.9	270.6	270.6	274.4	274.4
72.5°	214.2	210.5	206.7	203.0	203.0	199.2	195.5	199.2	199.2	203.0	203.0
75°	161.6	154.1	154.1	154.1	150.4	150.4	150.4	154.1	154.1	154.1	157.9
77.5°	120.2	120.2	116.5	116.5	116.5	120.2	120.2	124.0	124.0	124.0	124.0
80°	90.2	94.0	94.0	94.0	94.0	97.7	97.7	97.7	97.7	101.5	101.5
82.5°	67.6	67.6	67.6	67.6	71.4	71.4	71.4	71.4	71.4	71.4	71.4
85°	41.4	45.1	45.1	41.4	45.1	45.1	45.1	45.1	45.1	45.1	45.1
87.5°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
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: P584965

CATALOG NUMBER: HCC8W55D010BZ-HM82555835-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1
2.5°	2601.0	2601.0	2601.0	2601.0	2597.3	2597.3	2597.3	2593.5
5°	2544.6	2544.6	2544.6	2537.1	2540.9	2540.9	2533.4	2537.1
7.5°	2488.3	2484.5	2480.8	2480.8	2477.0	2473.3	2469.5	2473.3
10°	2424.4	2413.1	2413.1	2409.4	2409.4	2401.9	2401.9	2405.6
12.5°	2353.0	2345.4	2345.4	2341.7	2337.9	2334.2	2330.4	2330.4
15°	2281.5	2274.0	2270.3	2266.5	2262.8	2255.3	2259.0	2255.3
17.5°	2210.2	2198.9	2198.9	2195.2	2191.4	2183.8	2183.8	2180.0
20°	2127.4	2123.7	2116.2	2119.9	2116.2	2108.7	2104.9	2104.9
22.5°	2044.8	2044.8	2041.0	2041.0	2037.3	2033.5	2029.7	2029.7
25°	1965.8	1962.0	1965.8	1965.8	1954.5	1954.5	1954.5	1958.3
27.5°	1875.7	1879.4	1875.7	1875.7	1875.7	1875.7	1879.4	1875.7
30°	1785.4	1785.4	1785.4	1789.2	1796.7	1792.9	1792.9	1789.2
32.5°	1687.7	1691.4	1691.4	1695.2	1698.9	1706.4	1706.4	1710.2
35°	1589.9	1597.4	1601.2	1597.4	1608.8	1608.8	1616.3	1616.3
37.5°	1488.4	1492.2	1499.7	1503.6	1511.1	1514.8	1518.6	1518.6
40°	1379.4	1394.4	1398.3	1402.1	1413.3	1413.3	1417.1	1424.6
42.5°	1277.9	1293.1	1296.8	1300.6	1308.1	1319.3	1315.6	1323.1
45°	1180.2	1191.6	1195.3	1199.1	1210.3	1214.1	1214.1	1225.3
47.5°	1075.0	1082.6	1086.3	1093.8	1101.3	1108.8	1116.3	1112.6
50°	969.7	981.1	988.6	992.3	1003.6	1007.3	1011.1	1014.8
52.5°	875.8	883.3	887.1	890.8	902.1	905.8	909.6	917.1
55°	785.6	789.3	796.8	793.1	804.3	808.1	811.8	819.5
57.5°	695.3	699.1	702.8	702.8	710.3	718.0	721.7	725.5
60°	609.0	616.5	620.2	620.2	620.2	627.7	627.7	627.7
62.5°	530.0	530.0	533.7	533.7	541.2	541.2	541.2	541.2
65°	447.2	451.1	454.9	454.9	462.4	458.6	466.1	462.4
67.5°	360.9	360.9	368.4	368.4	364.6	368.4	368.4	368.4
70°	274.4	274.4	278.1	278.1	278.1	278.1	278.1	278.1
72.5°	203.0	203.0	203.0	206.7	203.0	203.0	206.7	203.0
75°	157.9	157.9	157.9	157.9	157.9	157.9	157.9	157.9
77.5°	124.0	124.0	127.7	127.7	127.7	127.7	127.7	127.7
80°	101.5	101.5	101.5	101.5	105.2	101.5	101.5	101.5
82.5°	75.1	71.4	75.1	71.4	75.1	75.1	75.1	75.1
85°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
87.5°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
90°	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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(END OF REPORT)