

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: P583779

Luminaire Tested: **HCC8S10D010BZ-HM80520927-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583779
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: HCC8S10D010BZ-HM80520927-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

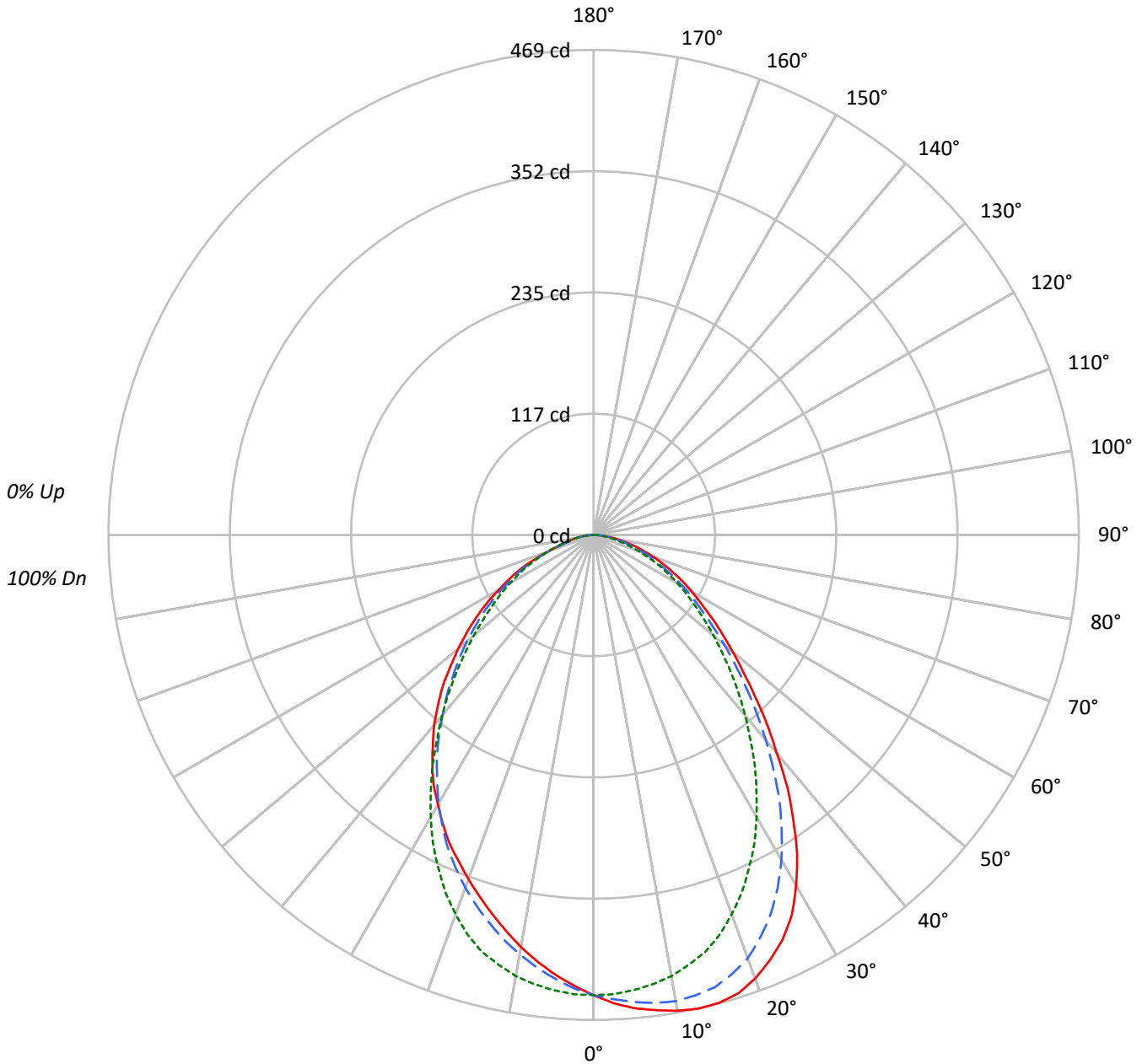
Lumens per Lamp: N/A
Luminaire Lumens: 895.3 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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



TEST NUMBER: P583779
CATALOG NUMBER: HCC8S10D010BZ-HM80520927-81WWWB

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P583779

CATALOG NUMBER: HCC8S10D010BZ-HM80520927-81WWWB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13725	13725	13725
5°	14227	13682	13211
10°	14632	13564	12672
15°	14956	13322	12112
20°	14980	12805	11620
25°	14695	12089	11211
30°	13936	11213	10718
35°	12664	10213	10235
40°	11070	9166	9649
45°	9598	8164	8988
50°	8400	7249	8189
55°	7478	6424	7414
60°	6747	5773	6519
65°	6085	5078	5677
70°	5473	4283	4219
75°	4825	3396	3169
80°	4031	2824	3037
85°	3149	2477	2689



TEST NUMBER: P583779

CATALOG NUMBER: HCC8S10D010BZ-HM80520927-81WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	4.7
10°-20°	118.3	13.2
20°-30°	169.0	18.9
30°-40°	179.6	20.1
40°-50°	154.6	17.3
50°-60°	115.6	12.9
60°-70°	73.8	8.2
70°-80°	33.6	3.7
80°-90°	8.8	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°	329.3	36.8
0°-40°	508.9	56.8
0°-60°	779.2	87.0
0°-90°	895.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	445	445	445	445	445	
5°	460	453	442	431	427	44
15°	468	453	417	389	379	132
25°	432	405	355	334	330	198
35°	336	313	271	264	272	210
45°	220	208	187	192	206	171
55°	139	128	120	130	138	125
65°	83	74	70	73	78	83
75°	40	35	28	26	27	43
85°	9	8	7	8	8	11
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P583779

CATALOG NUMBER: HCC8S10D010BZ-HM80520927-81WWWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1
2.5°	453.4	452.1	452.8	452.1	452.8	452.8	451.5	451.5	451.5	451.5	449.5
5°	459.6	459.0	459.0	458.4	457.8	458.4	457.8	457.1	455.9	455.3	453.4
7.5°	463.5	463.5	463.5	463.5	462.9	462.3	461.6	460.4	459.0	457.8	456.5
10°	467.3	467.9	467.3	466.6	466.0	464.8	464.1	462.9	461.0	459.0	457.8
12.5°	469.1	469.1	468.5	468.5	467.3	466.6	464.8	462.9	461.0	459.0	455.9
15°	468.5	468.5	467.9	467.3	465.4	464.8	463.5	461.6	458.4	455.9	452.8
17.5°	464.8	464.1	462.9	462.9	460.4	459.6	458.4	455.9	452.8	448.9	445.1
20°	456.5	456.5	455.9	455.3	452.8	450.9	449.5	446.4	443.9	439.5	435.7
22.5°	445.1	446.4	445.1	443.9	440.8	440.1	438.2	434.4	430.7	425.5	421.2
25°	431.9	431.3	430.7	429.4	426.8	425.5	423.0	419.3	415.4	409.8	404.7
27.5°	414.8	412.3	412.3	409.8	407.8	405.9	404.7	400.9	395.8	391.4	385.1
30°	391.4	392.1	388.8	388.2	385.1	383.8	381.3	377.5	373.1	368.1	363.0
32.5°	366.1	364.2	364.2	361.7	359.2	357.2	356.6	352.2	348.5	343.4	338.2
35°	336.4	336.4	334.5	333.9	331.4	330.1	328.1	325.6	321.2	316.8	313.0
37.5°	307.4	306.0	305.4	304.1	302.3	300.4	300.4	295.9	295.3	290.3	285.2
40°	275.0	276.3	275.0	273.2	272.5	271.3	270.7	268.2	266.2	261.8	258.7
42.5°	247.9	246.7	246.7	245.9	243.4	243.4	242.2	240.9	237.8	236.4	232.7
45°	220.1	221.3	219.4	220.1	217.6	217.6	217.6	215.0	212.5	210.6	208.1
47.5°	196.0	196.6	196.6	194.7	194.1	194.1	192.8	191.6	189.7	187.2	185.2
50°	175.1	175.7	174.5	173.9	172.6	172.0	172.0	169.5	168.2	165.6	164.4
52.5°	156.1	156.1	155.5	155.5	153.6	153.6	152.4	150.5	149.3	148.0	144.8
55°	139.1	139.1	138.5	137.9	137.9	135.9	135.3	133.4	132.1	129.6	127.8
57.5°	122.7	123.3	122.7	122.0	121.4	120.8	119.5	117.6	116.4	114.4	113.2
60°	109.4	109.4	108.8	108.2	106.9	106.3	105.7	104.3	102.4	101.2	99.3
62.5°	96.8	96.2	95.4	94.8	93.6	93.6	92.3	91.1	89.2	87.9	86.7
65°	83.4	83.4	82.8	82.8	82.2	80.9	80.3	79.7	77.2	76.6	73.9
67.5°	71.4	72.1	70.8	70.8	69.6	69.6	68.9	67.1	66.4	65.1	63.8
70°	60.7	60.7	60.7	60.1	58.8	58.2	57.6	56.3	55.7	54.3	53.1
72.5°	50.0	50.0	49.3	49.3	48.7	48.1	47.5	46.2	46.2	45.0	43.6
75°	40.5	40.5	39.8	39.2	38.6	38.6	38.0	37.3	36.1	35.5	34.7
77.5°	31.0	31.0	31.0	30.4	29.7	29.7	29.7	28.5	27.2	27.2	26.6
80°	22.7	22.7	22.1	22.1	21.5	21.5	21.5	20.9	20.2	19.6	19.0
82.5°	15.1	15.1	15.1	15.1	14.5	14.5	14.5	13.9	13.2	13.2	13.2
85°	8.9	8.9	8.9	8.9	8.2	8.2	8.2	8.2	8.2	7.6	7.6
87.5°	3.8	3.1	3.8	3.1	3.8	3.1	3.8	3.1	3.1	3.1	3.1
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: P583779

CATALOG NUMBER: HCC8S10D010BZ-HM80520927-81WWWB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1
2.5°	450.3	449.5	448.9	448.3	448.3	447.7	446.4	445.8	445.1	444.5	444.5
5°	452.8	452.1	450.9	449.5	448.9	447.7	446.4	445.1	443.9	442.0	441.4
7.5°	454.6	452.8	451.5	448.9	448.3	447.0	445.1	443.3	440.8	438.2	436.3
10°	454.6	452.1	450.3	447.0	445.8	444.5	442.0	438.9	435.7	433.2	430.0
12.5°	453.4	450.3	447.0	443.9	442.0	440.1	436.3	433.2	429.4	425.5	423.0
15°	448.9	445.1	441.4	437.5	435.7	433.2	429.4	424.9	421.2	417.3	412.9
17.5°	440.8	436.9	432.5	428.0	425.5	423.7	417.9	414.8	409.2	405.3	401.6
20°	430.0	425.5	419.9	415.4	412.3	410.4	405.9	400.3	395.8	390.2	386.3
22.5°	416.1	410.4	404.7	400.3	397.1	394.6	388.8	383.2	379.4	374.3	369.9
25°	399.7	393.9	388.2	381.9	378.8	376.2	371.2	366.1	361.1	355.3	351.6
27.5°	380.1	373.7	368.7	363.0	359.8	356.0	350.3	345.2	340.2	336.4	331.4
30°	358.6	351.6	346.5	340.8	337.6	334.5	328.9	323.7	319.4	314.9	312.4
32.5°	332.6	327.5	322.5	316.8	314.3	312.4	306.6	301.6	296.5	292.8	290.9
35°	308.0	302.3	297.9	292.8	289.6	287.8	282.7	278.3	275.7	271.3	268.8
37.5°	282.0	277.5	272.5	267.4	265.5	263.7	259.9	255.4	251.7	248.5	247.3
40°	254.8	251.0	246.7	243.4	241.6	239.7	236.4	233.3	230.8	227.7	226.3
42.5°	228.9	226.3	222.6	218.8	216.8	216.2	212.5	210.0	208.7	207.3	206.1
45°	205.5	201.7	199.2	196.6	194.7	193.5	191.6	189.7	188.5	187.2	185.9
47.5°	182.7	179.6	177.1	175.1	173.2	172.6	171.4	169.5	168.2	168.2	168.2
50°	161.9	159.4	156.9	155.5	154.9	153.6	152.4	151.8	151.1	151.1	151.1
52.5°	143.5	141.0	139.1	137.9	137.9	136.5	135.3	134.7	134.7	134.7	134.7
55°	126.5	124.5	123.3	122.0	120.8	120.2	120.2	120.2	119.5	119.5	120.2
57.5°	111.3	110.0	108.2	106.9	106.3	106.3	105.7	104.9	105.7	106.3	106.9
60°	97.4	96.2	95.4	93.6	93.6	93.6	92.9	92.9	92.9	93.6	94.2
62.5°	84.7	84.1	82.8	82.2	81.6	81.6	80.9	80.9	80.9	80.9	81.6
65°	73.3	72.1	70.8	70.8	70.8	70.2	70.2	68.9	69.6	69.6	68.9
67.5°	62.6	61.3	60.7	60.1	59.5	59.5	58.8	58.2	57.6	57.6	57.6
70°	52.5	51.2	51.2	50.0	50.0	49.3	48.7	48.7	48.1	47.5	46.8
72.5°	42.3	41.7	41.1	40.5	40.5	40.5	39.8	39.2	38.6	38.0	36.7
75°	33.5	33.5	32.2	31.6	31.6	31.0	30.4	29.7	29.1	28.5	27.8
77.5°	26.0	25.2	24.0	23.4	23.4	23.4	22.7	22.1	21.5	20.9	20.2
80°	19.0	18.4	17.7	17.1	17.1	17.1	16.5	16.5	15.9	15.9	15.9
82.5°	12.6	12.6	12.0	12.0	12.0	12.0	11.4	11.4	11.4	11.4	11.4
85°	7.6	7.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P583779

CATALOG NUMBER: HCC8S10D010BZ-HM80520927-81WWWB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1
2.5°	443.3	443.3	442.0	441.4	440.8	441.4	440.1	439.5	438.9	438.9	438.2
5°	439.5	438.9	436.3	435.7	435.0	434.4	433.2	431.9	430.7	430.0	429.4
7.5°	434.4	432.5	430.0	429.4	428.8	426.8	424.9	423.7	421.8	421.2	419.9
10°	427.4	424.9	423.0	421.2	419.9	417.9	416.1	414.2	411.7	411.0	409.2
12.5°	419.3	416.1	412.3	411.7	409.8	407.2	404.7	402.8	400.9	399.7	397.7
15°	409.2	405.9	402.2	400.3	398.3	396.4	393.3	390.8	388.8	387.0	385.1
17.5°	397.1	393.3	390.2	388.2	387.0	383.8	381.3	378.1	376.2	374.3	372.5
20°	382.6	379.4	375.0	373.1	372.5	369.9	366.7	365.5	363.0	361.1	359.8
22.5°	366.1	363.0	359.2	358.0	355.3	354.1	351.0	349.7	348.5	346.5	345.9
25°	347.7	344.6	341.5	340.8	339.0	337.6	335.7	333.9	333.9	332.0	332.0
27.5°	328.9	325.6	323.1	321.9	321.2	320.0	318.0	317.4	316.8	316.1	316.1
30°	308.6	304.8	303.5	302.9	302.3	301.0	300.4	299.1	299.8	300.4	299.8
32.5°	287.0	285.8	283.3	282.0	282.7	282.0	280.8	282.0	281.4	282.7	283.3
35°	266.2	264.9	263.7	263.7	262.4	262.4	262.4	263.0	264.3	264.9	266.2
37.5°	245.9	244.1	243.4	242.8	243.4	243.4	243.4	244.7	245.9	247.3	249.2
40°	224.5	223.2	223.2	223.2	223.2	225.1	224.5	225.7	227.1	228.9	230.8
42.5°	204.2	204.2	204.8	204.8	204.8	204.8	206.1	208.1	210.0	211.8	213.7
45°	185.2	185.2	185.2	186.6	186.6	187.2	189.7	191.0	192.2	194.1	196.0
47.5°	167.6	167.6	168.2	168.9	169.5	170.7	172.0	173.9	175.7	177.1	179.0
50°	151.1	151.8	153.0	154.3	154.3	154.9	156.9	158.1	159.4	161.2	161.9
52.5°	135.3	136.5	137.9	138.5	139.1	140.4	141.0	142.9	143.5	145.4	146.0
55°	120.8	121.4	123.3	123.9	123.9	125.2	126.5	127.8	129.6	129.6	130.9
57.5°	107.5	108.2	109.4	110.0	109.4	111.3	111.9	113.2	113.8	115.0	115.8
60°	94.2	95.4	96.2	96.2	96.8	97.4	98.7	98.7	99.9	101.2	101.2
62.5°	81.6	82.2	82.8	83.4	84.1	83.4	85.3	85.3	86.7	87.3	88.5
65°	69.6	70.2	70.2	70.8	70.8	71.4	71.4	72.1	72.7	73.9	74.6
67.5°	57.6	57.6	57.6	58.2	57.6	58.2	58.2	58.8	58.8	60.1	60.7
70°	46.8	46.2	45.6	45.6	45.6	45.6	45.0	45.6	45.6	46.2	46.2
72.5°	36.1	35.5	34.7	34.1	34.1	33.5	32.9	33.5	33.5	34.1	34.1
75°	27.2	26.0	26.0	26.0	25.2	25.2	25.2	26.0	26.0	26.0	26.6
77.5°	20.2	20.2	19.6	19.6	19.6	20.2	20.2	20.9	20.9	20.9	20.9
80°	15.1	15.9	15.9	15.9	15.9	16.5	16.5	16.5	16.5	17.1	17.1
82.5°	11.4	11.4	11.4	11.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0
85°	7.0	7.6	7.6	7.0	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P583779

CATALOG NUMBER: HCC8S10D010BZ-HM80520927-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1
2.5°	437.5	437.5	437.5	437.5	436.9	436.9	436.9	436.3
5°	428.0	428.0	428.0	426.8	427.4	427.4	426.2	426.8
7.5°	418.7	417.9	417.3	417.3	416.7	416.1	415.4	416.1
10°	407.8	405.9	405.9	405.3	405.3	404.1	404.1	404.7
12.5°	395.8	394.6	394.6	393.9	393.3	392.7	392.1	392.1
15°	383.8	382.6	381.9	381.3	380.7	379.4	380.1	379.4
17.5°	371.8	369.9	369.9	369.3	368.7	367.3	367.3	366.7
20°	358.0	357.2	356.0	356.6	356.0	354.7	354.1	354.1
22.5°	344.0	344.0	343.4	343.4	342.7	342.1	341.5	341.5
25°	330.7	330.1	330.7	330.7	328.9	328.9	328.9	329.5
27.5°	315.5	316.1	315.5	315.5	315.5	315.5	316.1	315.5
30°	300.4	300.4	300.4	301.0	302.3	301.6	301.6	301.0
32.5°	283.9	284.5	284.5	285.2	285.8	287.0	287.0	287.8
35°	267.4	268.8	269.4	268.8	270.7	270.7	271.9	271.9
37.5°	250.4	251.0	252.3	252.9	254.2	254.8	255.4	255.4
40°	232.1	234.6	235.2	235.8	237.8	237.8	238.4	239.7
42.5°	215.0	217.6	218.2	218.8	220.1	221.9	221.3	222.6
45°	198.6	200.5	201.1	201.7	203.6	204.2	204.2	206.1
47.5°	180.9	182.1	182.7	184.0	185.2	186.6	187.8	187.2
50°	163.1	165.0	166.4	167.0	168.9	169.5	170.1	170.7
52.5°	147.4	148.6	149.3	149.9	151.8	152.4	153.0	154.3
55°	132.1	132.8	134.0	133.4	135.3	135.9	136.5	137.9
57.5°	117.0	117.6	118.3	118.3	119.5	120.8	121.4	122.0
60°	102.4	103.7	104.3	104.3	104.3	105.7	105.7	105.7
62.5°	89.2	89.2	89.8	89.8	91.1	91.1	91.1	91.1
65°	75.2	75.8	76.6	76.6	77.8	77.2	78.4	77.8
67.5°	60.7	60.7	62.0	62.0	61.3	62.0	62.0	62.0
70°	46.2	46.2	46.8	46.8	46.8	46.8	46.8	46.8
72.5°	34.1	34.1	34.1	34.7	34.1	34.1	34.7	34.1
75°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
77.5°	20.9	20.9	21.5	21.5	21.5	21.5	21.5	21.5
80°	17.1	17.1	17.1	17.1	17.7	17.1	17.1	17.1
82.5°	12.6	12.0	12.6	12.0	12.6	12.6	12.6	12.6
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)