

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P639465

Luminaire Tested: RL3059FSD2W1EWH -500LM -3000K

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P639465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2206886A001)
Test Lab:
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RL3059FSD2W1EWH -500LM -3000K
Description: 3IN RETROFIT, 500LM SELECTABLE CCT, MATTE WHITE BAFFLE
Light Source: (1) DEDICATED LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

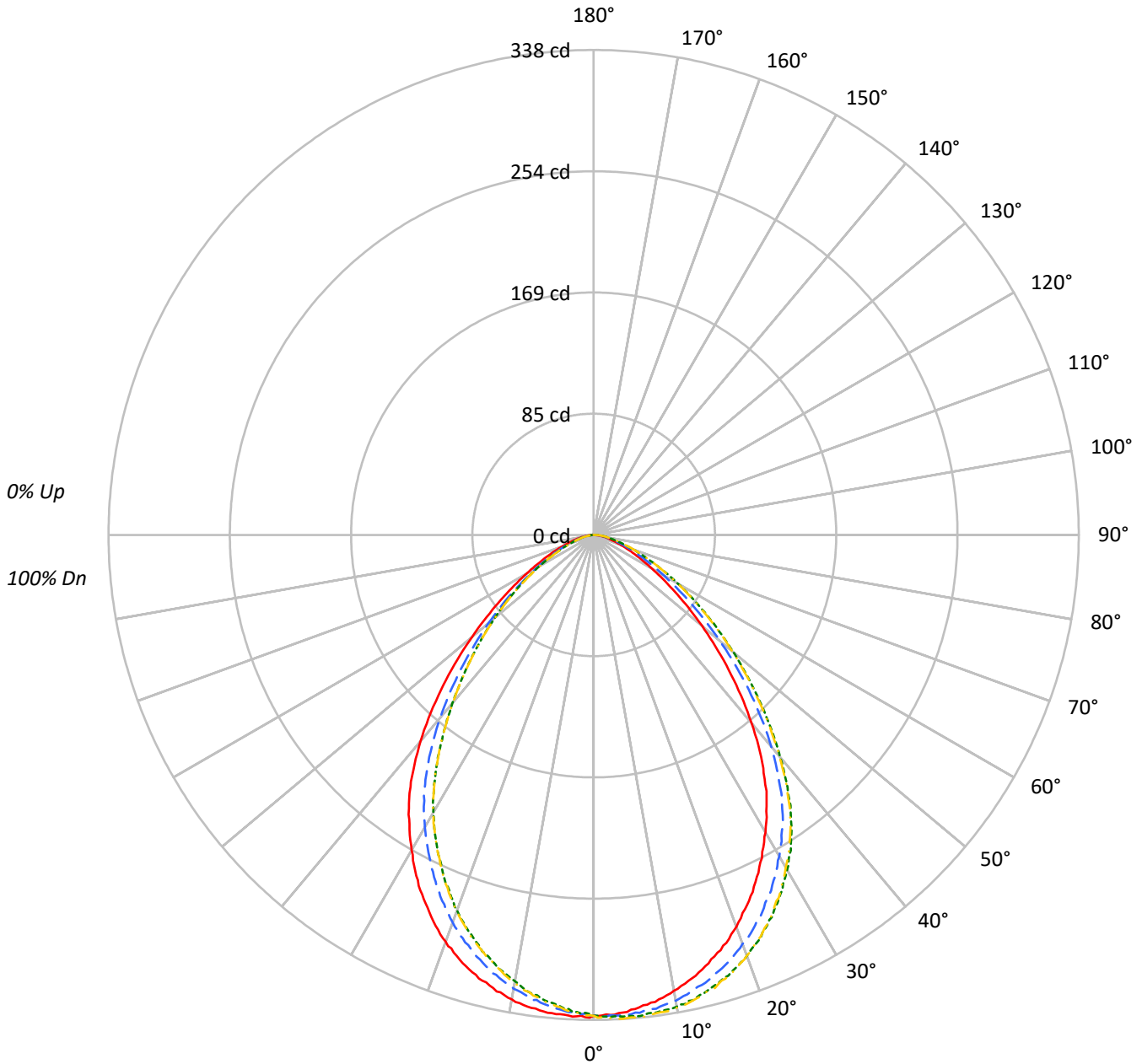
Lumens per Lamp: N/A
Luminaire Lumens: 610.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.16
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 6.4
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: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78								
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68								
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60								
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43								
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	73481	73481	73481	73481
5°	73013	74136	73652	72111
10°	71809	74347	73167	70339
15°	70216	73826	72032	68196
20°	67883	72853	70379	64989
25°	64576	71085	67794	61020
30°	60642	68264	64263	56616
35°	55653	64112	59936	50647
40°	48920	57823	53729	43796
45°	41214	50610	45958	37151
50°	33602	43393	37730	30669
55°	26494	36281	30202	24697
60°	20569	29647	23682	19165
65°	16189	23660	18783	14372
70°	12759	18529	15067	10963
75°	9828	14572	12031	8557
80°	8334	12375	10355	6440
85°	5535	12580	8806	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 50889 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	5.2
10°-20°	88.0	14.4
20°-30°	125.3	20.5
30°-40°	133.5	21.9
40°-50°	108.7	17.8
50°-60°	69.3	11.4
60°-70°	35.5	5.8
70°-80°	14.6	2.4
80°-90°	3.5	0.6
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°	244.9	40.1
0°-40°	378.4	62.0
0°-60°	556.4	91.2
0°-90°	610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	610.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	335	335	335	335	335	
5°	332	337	335	328	332	31
15°	309	325	317	300	309	87
25°	267	294	280	252	267	122
35°	208	240	224	189	208	129
45°	133	163	148	120	133	103
55°	69	95	79	65	69	63
65°	31	46	36	28	31	31
75°	12	17	14	10	12	13
85°	2	5	4	1	2	3
90°	0	1	0	0	0	



TEST NUMBER: P639465

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1
0.5°	335.4	335.2	334.7	334.3	335.1	335.7	336.4	335.3	336.5	335.0	335.0
1°	335.0	335.2	335.5	334.9	335.7	336.1	336.4	335.9	336.1	335.4	333.7
1.5°	334.4	335.0	335.6	335.9	335.8	336.7	337.2	336.2	335.3	335.3	334.2
2°	334.7	334.6	335.0	335.7	336.2	335.7	337.0	336.4	335.7	334.0	333.7
2.5°	334.7	334.4	335.3	336.6	335.9	336.5	337.3	336.6	336.0	334.4	332.9
3°	333.8	334.2	335.4	335.8	335.9	337.1	337.8	336.7	335.4	334.2	333.1
3.5°	333.6	334.4	335.2	336.0	336.3	337.6	337.8	336.2	335.0	333.7	332.3
4°	333.3	333.7	335.4	335.6	336.2	337.1	337.5	336.4	334.8	332.8	331.6
4.5°	331.8	333.6	335.0	335.7	336.4	337.4	337.3	335.9	335.1	333.1	331.1
5°	331.7	333.1	334.2	336.0	336.8	336.5	337.6	335.8	334.6	332.3	330.9
5.5°	330.9	332.7	334.6	335.4	336.8	337.2	337.9	335.0	334.7	331.1	329.5
6°	329.7	331.8	333.6	335.5	336.4	336.2	337.5	335.1	333.9	331.8	328.9
6.5°	329.6	331.1	333.7	334.9	335.6	337.0	337.3	335.0	333.6	330.6	328.0
7°	328.3	330.7	332.9	334.2	335.6	337.1	336.6	334.0	332.5	329.7	326.4
7.5°	328.3	331.0	333.1	334.4	335.7	336.4	336.2	333.9	332.6	329.1	327.1
8°	326.8	329.2	332.0	333.6	335.2	336.3	336.0	333.4	331.9	328.5	325.2
8.5°	326.1	328.7	331.3	334.3	334.9	335.2	336.0	332.5	331.2	327.7	324.0
9°	324.8	328.1	330.7	332.8	334.8	335.4	335.9	333.5	330.3	326.9	322.7
9.5°	324.0	327.0	329.5	332.9	334.5	334.8	334.8	331.7	330.1	325.8	321.9
10°	322.5	325.6	329.6	332.1	333.9	334.5	334.5	331.1	328.6	324.6	321.3
10.5°	321.7	325.4	328.7	330.5	332.8	334.0	333.8	331.0	328.0	324.2	318.8
11°	320.2	324.2	327.4	330.7	333.1	332.9	333.5	330.3	326.7	323.3	318.4
11.5°	319.1	322.8	326.8	330.4	331.5	332.6	332.8	328.8	325.4	321.9	317.0
12°	317.6	322.3	325.5	329.1	331.7	332.1	331.8	328.0	325.4	320.0	315.8
12.5°	316.5	320.6	324.3	328.3	330.4	330.5	330.9	326.8	323.5	318.7	314.0
13°	315.4	319.0	323.2	327.1	329.1	330.4	330.3	326.1	322.3	317.5	313.5
13.5°	313.6	317.6	322.7	326.6	328.7	328.8	328.5	324.7	320.7	316.6	311.5
14°	312.2	316.7	321.8	325.2	327.4	328.5	328.0	323.9	320.2	315.0	310.0
14.5°	310.5	315.4	320.4	323.6	326.2	327.6	327.4	323.2	319.3	314.0	308.1
15°	309.3	314.0	319.2	323.0	325.2	326.5	326.9	321.5	317.3	312.7	306.2
15.5°	306.8	312.8	317.4	321.8	324.3	325.7	324.9	319.9	316.3	310.6	305.0
16°	305.7	311.1	316.1	320.7	322.8	324.0	323.3	318.7	315.1	309.7	303.2
16.5°	303.7	309.3	315.1	320.1	321.7	322.4	322.6	317.0	313.4	308.0	301.1
17°	302.7	307.5	313.4	317.8	321.1	322.1	321.4	315.8	312.1	305.6	298.9
17.5°	300.2	306.3	312.1	316.7	319.2	320.3	320.0	314.0	310.5	304.1	297.8
18°	299.0	304.2	310.6	316.2	317.9	319.9	318.9	313.5	308.5	302.3	295.5
18.5°	297.0	302.9	308.8	313.9	316.7	317.6	316.9	311.4	307.1	300.1	294.1
19°	294.5	301.2	306.9	313.0	315.1	316.2	315.2	310.3	304.8	298.5	291.5
19.5°	292.6	299.1	305.5	311.0	314.0	314.7	314.1	307.5	304.0	296.8	289.7
20°	290.9	296.9	303.2	309.7	312.2	313.0	312.1	306.6	301.6	294.1	287.4
20.5°	288.2	295.3	302.9	307.0	310.2	310.9	310.6	304.2	300.1	292.4	285.2
21°	286.1	292.9	300.4	306.0	308.5	309.3	308.7	302.9	298.1	290.6	282.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	279.2	286.8	294.4	300.6	304.1	304.3	303.4	296.6	291.8	283.6	276.0
23°	277.1	284.3	291.7	298.5	300.9	302.5	301.1	294.5	289.4	281.6	273.5
23.5°	274.5	282.7	290.7	296.5	299.4	300.4	298.6	292.6	287.0	279.1	270.6
24°	272.4	280.1	288.2	294.7	297.8	297.8	297.3	290.8	284.3	277.0	268.8
24.5°	269.3	277.8	285.8	292.7	294.9	296.6	294.8	288.1	282.4	274.3	265.6
25°	266.9	275.7	282.8	290.0	293.8	293.5	293.1	285.8	280.2	272.1	263.2
25.5°	264.1	272.7	281.0	287.7	291.2	292.1	290.5	283.8	277.6	269.9	260.1
26°	261.9	270.1	279.0	285.7	288.4	290.1	287.7	280.7	275.5	266.8	258.0
26.5°	258.7	267.8	277.0	283.8	286.9	287.0	285.3	279.3	273.2	264.3	254.8
27°	256.0	265.2	274.1	281.6	284.4	284.9	283.9	276.6	270.0	261.4	252.0
27.5°	253.8	262.8	271.5	279.3	281.9	282.3	281.3	273.4	267.9	258.7	249.3
28°	250.1	260.2	269.5	276.4	280.2	280.5	278.7	270.8	264.9	256.0	246.5
28.5°	247.9	256.8	266.6	274.2	276.7	277.5	275.5	268.1	262.1	253.2	243.7
29°	245.0	253.9	264.0	271.7	274.3	274.5	273.3	265.3	259.6	250.1	241.0
29.5°	241.7	251.7	260.7	268.8	272.0	272.0	270.6	263.1	256.0	247.5	237.9
30°	239.5	248.5	258.8	266.4	269.6	270.0	267.8	260.5	253.8	244.7	235.4
30.5°	236.1	246.5	255.8	264.0	267.3	267.1	265.2	258.2	250.7	241.8	232.2
31°	233.5	243.0	253.0	261.7	263.8	264.5	262.7	254.6	248.1	239.1	229.4
31.5°	230.8	240.6	250.7	258.2	261.1	261.3	259.9	251.7	245.4	235.7	226.4
32°	227.1	237.8	246.9	255.6	259.3	259.0	257.1	249.0	242.1	232.9	223.2
32.5°	224.3	234.6	244.2	252.9	255.6	256.3	253.8	246.4	238.9	229.8	219.6
33°	221.2	231.7	242.0	249.9	252.6	252.8	251.3	242.9	236.1	227.3	217.2
33.5°	218.1	228.8	238.9	247.1	249.7	249.8	248.1	240.3	233.7	223.2	213.7
34°	215.3	225.1	235.5	243.4	246.7	246.7	245.2	236.8	230.1	220.9	209.9
34.5°	211.1	221.5	232.0	240.5	242.9	244.0	242.3	233.5	227.2	217.3	207.0
35°	207.9	218.3	228.7	236.3	239.5	240.4	238.1	230.8	223.9	214.3	203.1
35.5°	203.9	215.3	226.0	233.7	236.2	236.9	235.5	227.3	221.0	210.7	199.6
36°	201.0	211.8	222.4	230.0	233.3	233.2	231.8	223.8	217.0	207.5	196.0
36.5°	197.5	208.1	218.4	226.3	229.1	229.6	227.9	220.2	214.1	203.9	192.7
37°	193.8	204.6	214.7	222.6	224.9	226.1	224.3	216.4	210.0	200.0	188.7
37.5°	190.1	200.6	211.4	219.2	222.0	222.2	221.3	212.7	206.1	196.2	184.9
38°	186.4	197.3	207.2	215.4	218.0	218.4	216.7	209.0	202.7	192.8	181.3
38.5°	182.8	193.1	203.8	211.6	213.7	214.1	213.1	205.5	199.2	188.8	177.5
39°	178.7	189.8	200.2	207.8	210.3	210.7	209.2	201.1	195.0	185.2	174.0
39.5°	175.3	185.9	196.2	204.2	206.1	206.6	205.4	197.7	191.3	181.7	170.0
40°	170.9	182.2	192.3	200.3	202.0	202.7	201.2	193.3	187.7	177.5	166.1
40.5°	167.1	178.0	188.3	196.5	198.4	198.9	197.6	190.1	183.8	173.5	162.6
41°	163.6	174.4	184.8	192.4	194.5	194.9	193.5	186.2	180.1	169.5	158.6
41.5°	159.3	170.3	180.6	188.6	190.6	190.9	189.2	182.1	175.6	166.1	154.7
42°	156.1	166.7	176.9	184.6	186.9	187.2	185.5	178.0	172.1	162.0	151.2
42.5°	152.1	162.6	172.6	180.8	182.8	183.4	181.8	173.8	167.9	158.0	147.5
43°	148.1	158.7	168.4	176.8	178.9	179.3	178.1	170.1	164.1	154.3	143.7
43.5°	144.3	154.6	164.6	172.4	174.8	175.4	173.8	166.1	159.7	150.4	139.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	132.9	142.9	153.1	160.9	163.2	164.1	162.2	153.9	148.2	138.5	129.0
45.5°	129.8	138.8	149.0	156.9	159.7	159.8	158.1	150.3	144.3	135.0	125.5
46°	125.8	135.1	145.0	152.8	155.6	156.5	154.8	146.8	140.8	130.9	122.1
46.5°	122.3	131.3	141.0	149.1	152.1	152.7	150.7	143.0	136.4	127.3	118.5
47°	118.8	127.3	136.9	145.6	148.2	149.0	147.4	138.8	132.7	123.5	114.9
47.5°	115.2	123.7	133.6	141.4	144.7	145.5	143.4	135.6	129.0	120.0	111.9
48°	111.7	119.7	129.6	138.2	140.8	142.0	139.9	131.4	125.3	116.4	108.3
48.5°	108.1	116.2	125.8	133.9	137.5	138.2	136.4	128.3	121.5	112.8	105.1
49°	105.0	112.7	122.2	130.5	134.0	134.9	132.9	124.3	117.7	109.5	101.7
49.5°	101.6	109.1	118.1	126.8	130.5	131.6	129.2	120.8	114.2	106.0	98.6
50°	98.5	105.6	114.8	123.4	127.2	128.1	125.8	117.4	110.6	102.4	95.5
50.5°	95.3	102.3	111.2	119.6	123.5	124.6	122.5	113.6	107.3	99.2	92.3
51°	92.1	98.9	107.6	116.0	120.1	121.5	119.2	110.5	103.8	95.8	89.5
51.5°	89.1	95.6	104.3	112.8	116.8	118.2	115.9	107.0	100.5	92.8	86.4
52°	86.1	92.3	100.7	109.2	113.4	115.0	112.5	104.0	97.0	89.5	83.7
52.5°	83.0	89.4	97.6	106.0	110.2	111.8	109.5	100.7	94.0	86.6	81.0
53°	80.2	86.1	94.6	102.7	107.2	108.4	106.2	97.5	90.6	83.5	78.3
53.5°	77.4	83.2	91.3	99.5	104.2	105.4	103.0	94.5	87.8	80.7	75.6
54°	74.5	80.3	87.9	96.4	100.8	102.3	99.9	91.3	84.6	78.0	72.8
54.5°	72.0	77.3	85.1	93.3	97.7	99.3	96.7	88.4	81.9	75.2	70.2
55°	69.3	74.4	82.2	90.4	94.9	96.4	94.1	85.5	79.0	72.5	67.5
55.5°	66.8	71.8	79.2	87.4	91.9	93.5	91.0	82.7	76.3	69.7	65.1
56°	64.2	69.1	76.7	84.4	88.9	90.5	88.3	79.9	73.4	67.2	62.8
56.5°	62.0	66.6	73.6	81.6	86.2	87.7	85.3	77.2	70.7	64.7	60.4
57°	59.5	64.0	71.1	78.5	83.4	85.1	82.6	74.4	68.0	62.1	58.0
57.5°	57.2	61.6	68.4	75.9	80.7	82.2	79.9	71.8	65.7	59.8	55.9
58°	55.1	59.3	66.0	73.3	78.1	79.5	77.4	69.4	63.1	57.6	53.8
58.5°	52.9	56.9	63.4	70.8	75.4	77.0	74.8	66.9	60.9	55.2	51.8
59°	50.8	55.0	61.0	68.3	72.7	74.3	72.3	64.5	58.4	53.1	49.6
59.5°	48.9	52.7	58.7	65.7	70.1	71.7	69.7	62.2	56.2	51.0	47.7
60°	46.9	50.6	56.5	63.3	67.6	69.2	67.1	59.7	54.0	49.1	45.8
60.5°	45.0	48.6	54.3	61.1	65.3	66.8	64.6	57.5	52.0	47.2	43.9
61°	43.3	46.8	52.2	58.6	62.7	64.6	62.4	55.3	49.9	45.1	42.3
61.5°	41.5	44.9	50.1	56.4	60.5	62.1	60.2	53.3	48.1	43.5	40.5
62°	39.8	43.1	48.3	54.3	58.3	59.8	58.0	51.2	46.2	41.7	38.7
62.5°	38.2	41.5	46.2	52.2	55.9	57.6	55.7	49.4	44.3	40.1	37.3
63°	36.7	39.7	44.4	50.0	53.7	55.4	53.6	47.3	42.6	38.3	35.6
63.5°	35.2	38.1	42.6	48.1	51.5	53.2	51.5	45.6	40.8	36.9	34.2
64°	33.8	36.6	40.9	46.1	49.5	51.0	49.5	43.6	39.2	35.4	32.7
64.5°	32.5	35.1	39.3	44.2	47.5	49.1	47.6	41.9	37.7	34.0	31.4
65°	31.2	34.0	37.7	42.6	45.6	47.1	45.6	40.2	36.2	32.5	30.1
65.5°	29.9	32.6	36.1	40.6	43.6	45.1	43.7	38.5	34.6	31.2	28.7
66°	28.5	31.3	34.6	38.9	41.8	43.3	42.0	37.0	33.2	30.0	27.5



TEST NUMBER: P639465

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	25.0	27.2	30.6	34.1	36.6	37.9	36.9	32.3	29.4	26.3	24.1
68°	23.9	26.1	29.3	32.7	34.9	36.2	35.2	31.1	28.1	25.2	23.0
68.5°	22.8	25.1	27.9	31.4	33.3	34.7	33.7	29.8	26.8	24.3	21.9
69°	21.8	24.0	26.6	29.9	31.9	33.1	32.1	28.4	25.8	23.1	20.9
69.5°	20.8	22.9	25.5	28.5	30.4	31.6	30.8	27.0	24.6	22.1	20.0
70°	19.9	21.8	24.3	27.1	28.9	30.2	29.3	25.9	23.5	21.0	19.1
70.5°	18.9	20.8	23.2	26.0	27.5	28.6	28.0	24.8	22.4	20.2	18.2
71°	17.9	19.9	22.2	24.7	26.2	27.3	26.7	23.6	21.3	19.1	17.2
71.5°	17.0	18.9	21.1	23.5	25.0	26.0	25.4	22.4	20.3	18.3	16.3
72°	16.2	18.0	20.1	22.3	23.7	24.7	24.2	21.4	19.4	17.3	15.4
72.5°	15.3	17.0	19.1	21.3	22.6	23.5	23.0	20.3	18.5	16.4	14.6
73°	14.5	16.2	18.2	20.2	21.4	22.3	21.8	19.4	17.5	15.6	13.9
73.5°	13.8	15.4	17.3	19.2	20.3	21.2	20.7	18.4	16.6	14.7	13.1
74°	13.1	14.6	16.3	18.2	19.3	20.1	19.7	17.4	15.8	14.0	12.4
74.5°	12.3	13.9	15.5	17.3	18.2	19.1	18.8	16.5	14.9	13.2	11.8
75°	11.6	13.1	14.7	16.3	17.2	18.1	17.7	15.6	14.2	12.5	11.2
75.5°	11.0	12.4	14.0	15.5	16.3	17.0	16.8	14.8	13.4	11.8	10.7
76°	10.4	11.7	13.2	14.6	15.4	16.1	15.8	14.0	12.6	11.2	10.2
76.5°	10.0	11.0	12.5	13.9	14.5	15.2	15.0	13.2	11.8	10.6	9.7
77°	9.5	10.4	11.7	13.1	13.8	14.4	14.2	12.5	11.2	10.1	9.2
77.5°	9.0	9.9	11.1	12.4	13.0	13.6	13.4	11.7	10.5	9.7	8.7
78°	8.6	9.4	10.4	11.6	12.2	12.8	12.6	11.0	10.1	9.1	8.2
78.5°	8.1	8.9	9.9	11.0	11.5	12.0	11.8	10.3	9.6	8.7	7.7
79°	7.6	8.5	9.4	10.4	10.8	11.3	11.1	9.9	9.1	8.2	7.2
79.5°	7.1	8.1	9.0	9.9	10.3	10.7	10.5	9.4	8.7	7.7	6.7
80°	6.6	7.6	8.6	9.4	9.8	10.1	9.9	8.9	8.2	7.2	6.2
80.5°	6.1	7.1	8.1	8.9	9.3	9.6	9.4	8.5	7.7	6.7	5.7
81°	5.6	6.6	7.6	8.5	8.8	9.1	8.9	8.0	7.2	6.2	5.3
81.5°	5.1	6.1	7.1	8.0	8.4	8.7	8.5	7.5	6.7	5.8	4.8
82°	4.7	5.6	6.6	7.5	7.9	8.2	8.0	7.0	6.2	5.3	4.3
82.5°	4.2	5.2	6.1	7.0	7.4	7.7	7.5	6.5	5.7	4.8	3.9
83°	3.8	4.7	5.6	6.5	6.9	7.2	7.0	6.0	5.3	4.4	3.5
83.5°	3.4	4.2	5.2	6.0	6.4	6.7	6.5	5.6	4.8	3.9	3.1
84°	3.0	3.8	4.7	5.6	5.9	6.2	6.0	5.1	4.4	3.5	2.8
84.5°	2.6	3.4	4.3	5.1	5.4	5.7	5.6	4.6	3.9	3.1	2.3
85°	2.2	3.0	3.8	4.6	5.0	5.2	5.1	4.2	3.5	2.8	2.0
85.5°	1.8	2.7	3.4	4.2	4.5	4.8	4.7	3.8	3.1	2.4	1.6
86°	1.4	2.2	3.0	3.7	4.1	4.3	4.2	3.3	2.8	2.0	1.2
86.5°	1.0	1.8	2.7	3.3	3.6	3.9	3.8	2.9	2.4	1.6	0.8
87°	0.7	1.4	2.3	2.9	3.2	3.5	3.3	2.6	2.0	1.2	0.5
87.5°	0.4	1.0	1.8	2.6	2.9	3.0	2.9	2.2	1.6	0.9	0.2
88°	0.1	0.7	1.4	2.2	2.5	2.7	2.6	1.8	1.2	0.5	0.0
88.5°	0.0	0.4	1.1	1.8	2.1	2.3	2.2	1.4	0.9	0.2	0.0



TEST NUMBER: P639465

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.1	0.7	0.9	1.2	1.1	0.4	0.1	0.0	0.0



TEST NUMBER: P639465

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	335.1	335.1	335.1	335.1	335.1	335.1
0.5°	334.1	333.8	334.0	334.7	335.2	335.4
1°	333.9	333.2	333.9	335.1	334.3	335.0
1.5°	333.9	333.7	332.9	334.2	334.7	334.4
2°	332.5	332.7	332.7	333.3	333.5	334.7
2.5°	332.3	332.8	332.1	333.1	333.7	334.7
3°	331.3	330.9	330.7	332.4	332.9	333.8
3.5°	331.5	330.8	330.1	331.5	331.8	333.6
4°	330.3	329.5	329.2	330.2	331.6	333.3
4.5°	328.9	328.5	327.8	329.6	331.3	331.8
5°	329.4	327.6	327.3	328.6	330.4	331.7
5.5°	327.6	327.1	326.7	328.1	329.2	330.9
6°	326.6	326.3	325.1	327.0	328.3	329.7
6.5°	326.1	325.0	324.7	325.7	326.9	329.6
7°	325.1	323.2	323.9	324.5	327.0	328.3
7.5°	323.7	323.1	321.8	323.9	325.0	328.3
8°	322.3	321.9	321.6	321.7	324.0	326.8
8.5°	321.4	320.9	319.7	321.4	324.0	326.1
9°	320.3	319.1	317.9	320.2	322.1	324.8
9.5°	318.7	317.3	316.5	318.9	321.7	324.0
10°	317.2	315.9	315.9	317.1	319.0	322.5
10.5°	316.0	314.6	314.8	315.8	318.0	321.7
11°	315.2	313.1	312.0	314.2	316.7	320.2
11.5°	313.8	311.5	310.8	312.7	315.5	319.1
12°	312.1	310.2	309.7	310.5	313.9	317.6
12.5°	310.5	309.0	308.2	309.1	312.2	316.5
13°	308.7	306.7	305.8	307.7	311.4	315.4
13.5°	307.1	305.0	304.0	305.1	309.7	313.6
14°	304.8	303.0	301.7	304.8	308.3	312.2
14.5°	303.9	301.6	300.4	302.0	306.2	310.5
15°	301.8	300.4	298.1	300.1	304.8	309.3
15.5°	300.2	297.4	296.3	298.3	303.1	306.8
16°	297.7	295.7	294.4	296.4	301.2	305.7
16.5°	296.0	293.6	292.2	294.3	299.3	303.7
17°	294.1	291.3	290.0	292.6	296.6	302.7
17.5°	292.0	289.8	287.6	290.1	294.8	300.2
18°	290.1	287.5	285.5	288.0	292.6	299.0
18.5°	287.6	285.2	283.8	285.7	291.4	297.0
19°	285.4	283.3	281.4	283.6	288.2	294.5
19.5°	284.1	280.9	279.1	281.5	286.4	292.6
20°	280.9	278.5	276.5	278.4	284.7	290.9
20.5°	278.4	276.6	274.8	276.6	282.3	288.2
21°	276.7	273.2	271.5	273.9	280.1	286.1

TEST NUMBER: P639465

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	269.5	265.5	264.3	266.1	272.5	279.2
23°	266.3	263.7	261.6	264.1	270.5	277.1
23.5°	264.2	260.8	258.8	261.3	267.4	274.5
24°	261.1	258.2	256.4	258.5	265.3	272.4
24.5°	258.2	255.0	253.8	255.6	262.7	269.3
25°	255.8	252.2	251.0	252.9	259.0	266.9
25.5°	253.1	249.5	248.2	249.7	257.0	264.1
26°	250.4	247.4	245.1	247.3	254.4	261.9
26.5°	247.2	244.3	241.9	244.4	251.4	258.7
27°	244.8	241.3	239.7	241.7	248.8	256.0
27.5°	241.8	238.4	236.4	238.5	245.8	253.8
28°	238.9	235.6	233.5	235.5	243.1	250.1
28.5°	235.6	232.8	230.6	232.5	239.9	247.9
29°	233.1	229.4	227.2	230.0	237.2	245.0
29.5°	230.0	226.3	224.6	226.5	234.8	241.7
30°	227.4	223.6	221.7	223.4	230.8	239.5
30.5°	224.0	219.8	217.9	220.6	227.9	236.1
31°	221.1	217.5	214.8	217.5	225.0	233.5
31.5°	218.1	213.5	211.5	213.4	222.4	230.8
32°	214.5	210.2	207.7	210.3	219.2	227.1
32.5°	211.4	207.2	204.2	206.8	215.8	224.3
33°	207.8	202.9	200.6	203.7	212.0	221.2
33.5°	204.3	199.9	197.2	200.2	209.2	218.1
34°	200.9	196.1	193.1	196.2	206.0	215.3
34.5°	197.3	192.5	189.7	192.5	201.8	211.1
35°	193.1	189.2	186.2	188.6	198.5	207.9
35.5°	189.6	185.1	182.7	185.2	195.0	203.9
36°	186.5	181.4	178.9	182.0	191.4	201.0
36.5°	182.5	177.6	174.9	178.0	187.3	197.5
37°	179.1	174.4	171.8	174.2	183.4	193.8
37.5°	175.1	170.6	168.1	170.7	180.3	190.1
38°	171.4	166.8	164.2	167.0	176.7	186.4
38.5°	168.1	163.7	161.0	163.2	172.6	182.8
39°	163.9	159.7	157.6	159.6	169.6	178.7
39.5°	160.4	156.3	154.3	156.0	165.4	175.3
40°	156.6	153.0	150.6	152.9	161.9	170.9
40.5°	153.3	149.5	147.3	148.9	158.3	167.1
41°	149.7	146.1	143.8	145.7	154.5	163.6
41.5°	145.9	142.4	140.3	142.3	150.5	159.3
42°	142.3	139.2	137.2	138.9	147.1	156.1
42.5°	139.0	135.6	133.8	135.4	143.1	152.1
43°	135.8	132.5	130.7	132.0	139.9	148.1
43.5°	132.1	129.4	127.4	128.8	136.5	144.3



TEST NUMBER: P639465

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	122.1	119.8	117.9	119.0	126.0	132.9
45.5°	118.7	116.5	114.9	116.1	122.9	129.8
46°	115.4	113.2	111.5	112.9	119.0	125.8
46.5°	112.3	110.3	108.8	109.6	116.0	122.3
47°	109.0	107.3	105.8	106.6	112.8	118.8
47.5°	105.8	104.3	102.7	103.9	109.2	115.2
48°	102.7	101.3	99.9	100.7	106.0	111.7
48.5°	99.7	98.4	96.9	97.8	103.1	108.1
49°	96.7	95.3	94.3	95.0	99.9	105.0
49.5°	93.8	92.7	91.5	92.0	96.8	101.6
50°	90.9	89.9	88.7	89.4	94.1	98.5
50.5°	88.0	87.1	85.8	86.5	90.9	95.3
51°	85.1	84.3	83.4	84.0	88.1	92.1
51.5°	82.6	81.8	80.8	81.1	85.3	89.1
52°	79.9	79.2	78.4	78.7	82.5	86.1
52.5°	77.3	76.8	75.6	76.1	79.7	83.0
53°	74.5	74.0	73.2	73.5	77.0	80.2
53.5°	71.9	71.7	70.9	71.3	74.5	77.4
54°	69.6	69.2	68.5	68.6	71.6	74.5
54.5°	67.0	66.9	66.1	66.4	69.2	72.0
55°	64.8	64.6	63.7	63.8	66.9	69.3
55.5°	62.5	62.2	61.5	61.7	64.6	66.8
56°	60.0	60.0	59.2	59.5	62.0	64.2
56.5°	57.9	57.8	57.2	57.2	59.8	62.0
57°	55.6	55.6	55.0	55.1	57.5	59.5
57.5°	53.6	53.6	52.9	53.0	55.2	57.2
58°	51.6	51.4	50.9	50.8	53.2	55.1
58.5°	49.5	49.4	48.9	48.9	51.2	52.9
59°	47.6	47.5	46.9	46.9	49.1	50.8
59.5°	45.5	45.6	45.0	45.0	47.1	48.9
60°	43.7	43.7	43.2	43.1	45.2	46.9
60.5°	42.1	42.0	41.2	41.3	43.5	45.0
61°	40.3	40.0	39.4	39.6	41.7	43.3
61.5°	38.6	38.4	37.8	37.8	39.9	41.5
62°	37.0	36.8	36.1	36.2	38.2	39.8
62.5°	35.4	35.1	34.5	34.6	36.7	38.2
63°	33.7	34.0	33.0	33.1	35.1	36.7
63.5°	32.3	32.4	31.6	31.7	34.0	35.2
64°	31.0	30.9	30.1	30.3	32.5	33.8
64.5°	29.5	29.3	28.6	28.8	31.1	32.5
65°	28.2	27.7	27.1	27.3	29.7	31.2
65.5°	26.9	26.4	25.9	26.1	28.2	29.9
66°	25.7	25.2	24.7	24.9	26.8	28.5



TEST NUMBER: P639465

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	22.3	21.8	21.2	21.5	23.4	25.0
68°	21.3	20.7	20.3	20.5	22.3	23.9
68.5°	20.3	19.8	19.3	19.5	21.3	22.8
69°	19.4	18.8	18.3	18.5	20.3	21.8
69.5°	18.4	17.9	17.4	17.7	19.4	20.8
70°	17.5	17.1	16.5	16.7	18.3	19.9
70.5°	16.6	16.1	15.7	15.9	17.5	18.9
71°	15.7	15.3	14.8	15.0	16.6	17.9
71.5°	14.9	14.5	14.1	14.3	15.7	17.0
72°	14.2	13.8	13.3	13.5	14.9	16.2
72.5°	13.4	13.1	12.6	12.7	14.2	15.3
73°	12.7	12.4	12.0	12.0	13.4	14.5
73.5°	12.1	11.8	11.4	11.5	12.6	13.8
74°	11.5	11.2	10.8	11.0	11.9	13.1
74.5°	11.0	10.7	10.3	10.4	11.3	12.3
75°	10.4	10.1	9.7	9.9	10.8	11.6
75.5°	9.9	9.5	9.2	9.3	10.3	11.0
76°	9.4	9.0	8.7	8.8	9.7	10.4
76.5°	8.8	8.5	8.2	8.3	9.2	10.0
77°	8.4	8.0	7.7	7.8	8.7	9.5
77.5°	7.9	7.5	7.2	7.3	8.3	9.0
78°	7.4	7.0	6.7	6.8	7.8	8.6
78.5°	6.8	6.5	6.2	6.3	7.3	8.1
79°	6.3	6.0	5.7	5.8	6.8	7.6
79.5°	5.8	5.5	5.2	5.3	6.3	7.1
80°	5.4	5.1	4.7	4.9	5.8	6.6
80.5°	4.9	4.6	4.3	4.4	5.3	6.1
81°	4.4	4.1	3.8	4.0	4.9	5.6
81.5°	4.0	3.7	3.4	3.5	4.4	5.1
82°	3.6	3.3	3.0	3.1	4.0	4.7
82.5°	3.1	2.9	2.7	2.8	3.5	4.2
83°	2.8	2.5	2.3	2.4	3.1	3.8
83.5°	2.4	2.1	1.9	2.0	2.8	3.4
84°	2.0	1.7	1.5	1.6	2.4	3.0
84.5°	1.6	1.4	1.1	1.2	2.0	2.6
85°	1.3	1.0	0.8	0.8	1.6	2.2
85.5°	0.9	0.6	0.4	0.5	1.2	1.8
86°	0.6	0.3	0.2	0.2	0.8	1.4
86.5°	0.3	0.1	0.0	0.1	0.5	1.0
87°	0.1	0.0	0.0	0.0	0.2	0.7
87.5°	0.0	0.0	0.0	0.0	0.1	0.4
88°	0.0	0.0	0.0	0.0	0.0	0.1
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P639465

CATALOG NUMBER: RL3059FSD2W1EWH -500LM -3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	283.2	291.4	298.5	304.4	306.9	308.1	306.5	300.9	295.8	288.5	280.9
22°	281.3	288.5	296.3	303.1	305.4	306.1	304.7	299.1	294.0	286.6	277.8



44°	140.6	150.8	160.9	168.3	171.3	171.6	169.8	162.4	155.7	146.4	136.5
44.5°	136.8	146.9	156.7	164.5	167.3	167.6	165.9	158.3	152.0	142.6	132.8



66.5°	27.3	29.9	33.3	37.4	40.0	41.5	40.1	35.3	31.9	28.7	26.3
67°	26.1	28.5	31.9	35.7	38.1	39.7	38.4	33.8	30.6	27.5	25.2



89°	0.0	0.1	0.7	1.4	1.7	1.9	1.8	1.1	0.5	0.1	0.0
89.5°	0.0	0.0	0.4	1.0	1.3	1.5	1.4	0.7	0.2	0.0	0.0

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21.5°	274.3	271.1	269.9	271.7	277.7	283.2
22°	271.4	268.0	267.3	269.2	275.6	281.3



44°	128.7	125.9	124.2	125.4	132.6	140.6
44.5°	125.2	122.8	121.0	122.2	129.3	136.8



66.5°	24.5	24.0	23.4	23.8	25.7	27.3
67°	23.4	22.9	22.3	22.6	24.5	26.1

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)