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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P827190

Luminaire Tested: **OHBL-36HE-MCL-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024

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

Test Information

Test Method:	LM-79-08
Report Number:	P827190
	REPORT IS A COMBINATION OF REPORTS P826312 AND G3-2310-221-2
Test Lab:	INNOVATION CENTER
Issue Date:	5/3/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	OHBL-36HE-MCL-UNV-L840-CD-UPL36
Description:	36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENSAND 3600 LUMEN UPLIGHT MODULE
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	38594.1 lumens
Efficiency:	N/A
Efficacy:	160.3 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.27 / 1.39
Luminous Opening:	Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type:	Semi-Direct

Input Watts (W):	240.8
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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Scaled Data Report

TEST NUMBER: P827190
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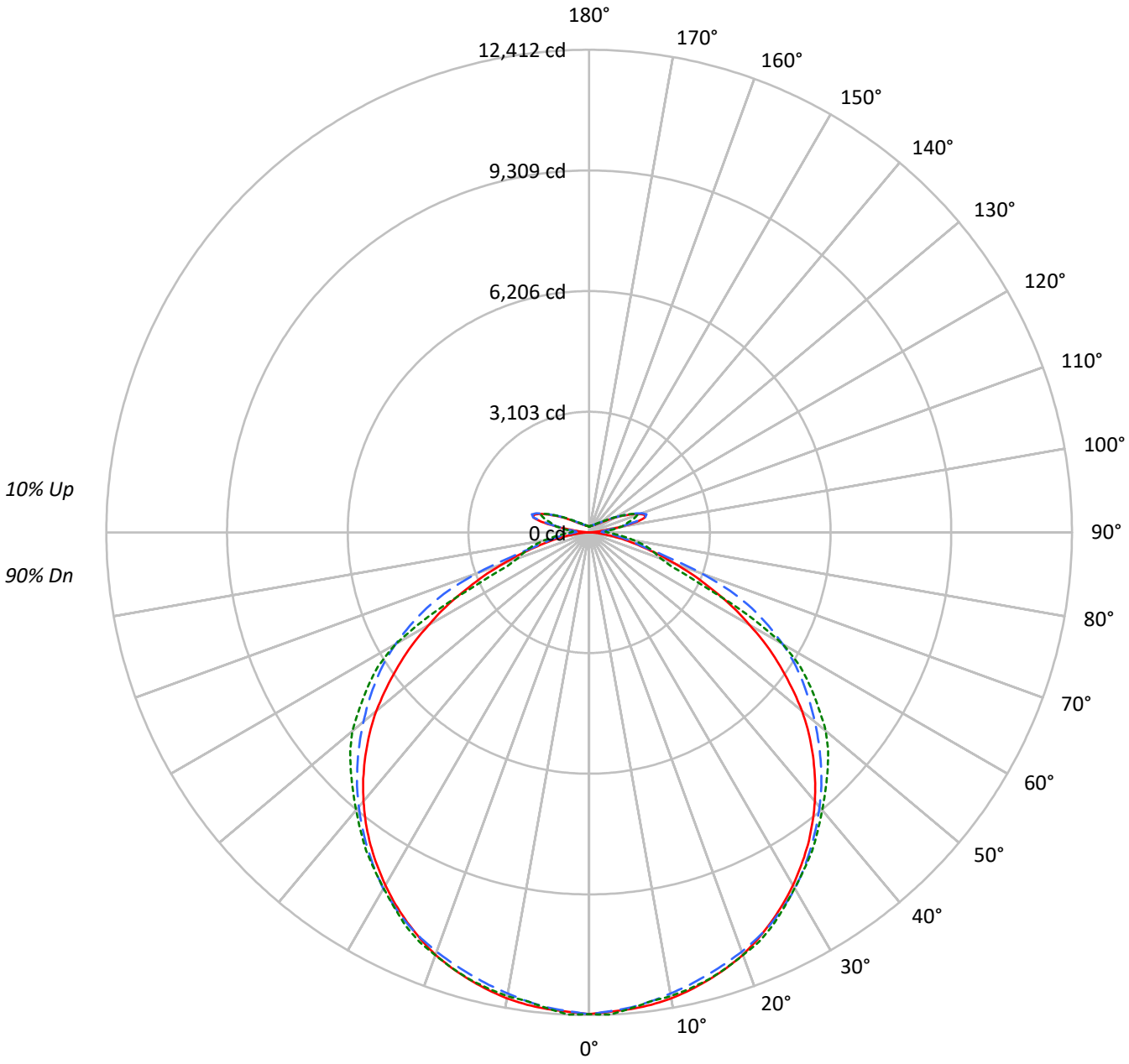
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	63
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19590	19590	19590
5°	19380	19306	19428
10°	19228	19013	19294
15°	19023	18794	19247
20°	18817	18657	19162
25°	18504	18518	19082
30°	18166	18299	18815
35°	17776	17952	18718
40°	17293	17594	18556
45°	16656	17179	18562
50°	15827	16707	18564
55°	14581	16242	18045
60°	12991	15563	16885
65°	10971	14301	10869
70°	8649	11164	8052
75°	6279	6627	8439
80°	4139	5510	8508
85°	2100	5049	8947

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TEST NUMBER: P827190
CATALOG NUMBER: OHBL-36HE-MCL-UNV-L840-CD-UPL36

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1168.0	3.0
10°-20°	3349.3	8.7
20°-30°	5115.4	13.3
30°-40°	6206.8	16.1
40°-50°	6505.3	16.9
50°-60°	5894.8	15.3
60°-70°	3952.2	10.2
70°-80°	1774.7	4.6
80°-90°	651.7	1.7
90°-100°	469.0	1.2
100°-110°	1337.6	3.5
110°-120°	1077.1	2.8
120°-130°	513.4	1.3
130°-140°	264.5	0.7
140°-150°	156.2	0.4
150°-160°	93.4	0.2
160°-170°	49.6	0.1
170°-180°	15.2	0.0
0°-30°	9632.7	25.0
0°-40°	15839.5	41.0
0°-60°	28239.5	73.2
0°-90°	34618.1	89.7
90°-120°	2883.7	7.5
90°-150°	3817.7	9.9
90°-180°	3976.0	10.3
0°-180°	38594.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12387	12387	12387	12387	12387	
5°	12307	12350	12264	12301	12285	###
15°	11907	11861	11776	11880	11895	3362
25°	11062	11014	11090	11193	11160	5099
35°	9804	9828	9928	10034	9994	6128
45°	8137	8270	8424	8638	8665	6268
55°	5988	6276	6704	6973	6957	5345
65°	3514	4064	4614	3894	3179	3501
75°	1383	2006	1476	1510	1608	1511
85°	238	457	586	708	742	291
90°	10	201	366	452	471	20
95°	64	219	373	462	486	233
105°	1484	1515	1488	1155	1060	1412
115°	1044	1038	1076	1097	1091	1055
125°	520	539	569	566	557	490
135°	316	325	335	347	349	250
145°	234	241	246	251	254	150
155°	194	199	202	204	202	91
165°	171	173	174	175	176	49
175°	158	158	157	155	156	15
180°	154	154	154	154	154	

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Scaled Data Report

TEST NUMBER: P827190
CATALOG NUMBER: OHBL-36HE-MCL-UNV-L840-CD-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12387.3	12387.3	12387.3	12387.3	*12387.3*
2.5°	*12337.1*	*12389.1*	*12324.6*	*12394.4*	*12412.4*
5°	12306.7	12349.7	12263.7	12301.3	*12285.2*
7.5°	12251.2	12265.5	12163.4	12193.8	*12161.6*
10°	12168.8	12161.6	12041.6	12100.7	*12107.9*
12.5°	12047.0	12025.5	11918.0	12007.6	*12009.4*
15°	11907.3	11860.7	11776.5	11880.4	*11894.7*
17.5°	11746.1	11685.2	11629.6	11764.0	*11742.5*
20°	11558.0	11486.3	11475.6	11622.5	*11568.7*
22.5°	11325.2	11269.6	11294.7	11434.4	*11400.4*
25°	11061.9	11013.5	11090.5	11192.6	*11160.4*
27.5°	10784.2	10755.6	10843.3	10922.2	*10859.5*
30°	10479.7	10463.6	10580.1	10644.5	*10565.7*
32.5°	10148.4	10153.8	10264.8	10352.6	*10279.1*
35°	9804.5	9827.8	9928.1	10033.8	*9994.4*
37.5°	9426.6	9478.5	9578.8	9698.8	*9657.6*
40°	9027.2	9102.4	9213.4	9358.5	*9320.9*
42.5°	8595.5	8690.4	8833.7	8994.9	*8991.3*
45°	8137.0	8269.5	8423.6	8638.5	*8665.4*
47.5°	7660.6	7809.2	8004.4	8291.0	*8332.2*
50°	7142.9	7329.2	7572.8	7916.7	*7941.8*
52.5°	6566.2	6820.5	7142.9	7472.5	*7442.0*
55°	5987.7	6276.0	6704.1	6972.8	*6956.6*
57.5°	5410.9	5735.1	6254.5	6446.2	*6444.4*
60°	4766.1	5176.3	5744.1	5889.1	*5745.9*
62.5°	4169.7	4610.3	5199.6	5093.9	*4603.1*
65°	3514.1	4064.0	4613.9	3893.9	*3179.2*
67.5°	2932.0	3505.2	3918.9	2667.0	*2283.7*
70°	2346.3	2978.6	3055.6	1979.2	*1952.3*
72.5°	1826.9	2500.4	2108.1	1694.4	*1780.4*
75°	1382.7	2006.0	1475.9	1509.9	*1608.4*
77.5°	1008.4	1540.3	1148.1	1323.6	*1404.2*
80°	693.2	1090.8	936.7	1112.3	*1167.8*
82.5°	435.2	720.0	750.5	895.6	*952.9*
85°	238.2	456.7	585.7	707.5	*741.5*
87.5°	98.5	275.8	447.8	546.3	*574.9*
90°	9.8	201.2	365.7	451.7	*470.6*
92.5°	26.8	176.4	324.2	402.3	*420.8*
95°	63.8	218.9	372.8	462.5	*485.7*
97.5°	377.6	477.2	522.7	626.6	*657.7*
100°	808.4	886.7	784.1	819.5	*844.9*
102.5°	1265.2	1325.2	1129.8	980.9	*956.2*
105°	1484.2	1515.2	1488.1	1154.6	*1060.0*

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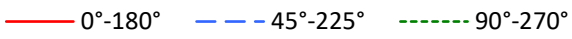
CATALOG NUMBER: OHBL-36HE-MCL-UNV-L840-CD-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1222.5	1238.1	1262.9	1275.0	*1246.6*
115°	1044.3	1037.5	1075.9	1097.3	*1090.9*
117.5°	895.3	888.9	923.8	930.5	*923.1*
120°	755.3	757.1	790.4	785.4	*779.2*
122.5°	628.3	642.3	669.0	668.0	*656.8*
125°	519.5	539.3	569.2	565.6	*557.4*
127.5°	449.3	455.3	483.7	484.0	*485.8*
130°	388.3	398.1	418.1	427.2	*425.2*
132.5°	348.1	357.9	373.3	383.4	*386.4*
135°	316.1	324.9	334.7	346.7	*349.4*
137.5°	291.9	297.9	303.9	317.9	*320.7*
140°	269.9	275.9	280.1	291.3	*293.1*
142.5°	250.1	257.9	261.1	269.5	*271.3*
145°	234.1	240.9	245.9	250.7	*253.5*
147.5°	223.9	227.9	232.9	233.9	*236.7*
150°	212.9	215.9	219.9	221.9	*222.9*
152.5°	202.9	205.9	209.9	210.9	*211.9*
155°	193.9	198.7	201.7	203.7	*201.9*
157.5°	185.9	190.7	193.7	194.7	*194.7*
160°	179.9	183.7	186.7	186.7	*187.7*
162.5°	175.7	177.7	179.7	180.7	*181.7*
165°	170.7	172.7	173.7	174.7	*175.7*
167.5°	166.7	169.5	168.7	169.7	*169.7*
170°	162.7	163.7	164.7	162.9	*163.9*
172.5°	159.7	160.7	161.7	159.9	*159.9*
175°	157.7	157.7	156.9	155.1	*156.1*
177.5°	157.5	156.7	154.9	153.1	*152.3*
180°	153.9	153.9	153.9	153.9	*153.9*

Report Generated By 670246072 / DESKTOP-50001EG


0°-180°
45°-225°
90°-270°

107.5°	1500.0	1528.0	1545.8	1389.7	*1219.3*
110°	1386.7	1417.7	1439.4	1398.6	*1323.1*

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

METALUX

Report Number: SP1-2304-001-1

Test Date: 05/31/2023

Luminaire Tested: OHB-15SE-N-UNV-L840

Data in this report applies to families of products including OHB-15SE-N-UNV-L840.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.12

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

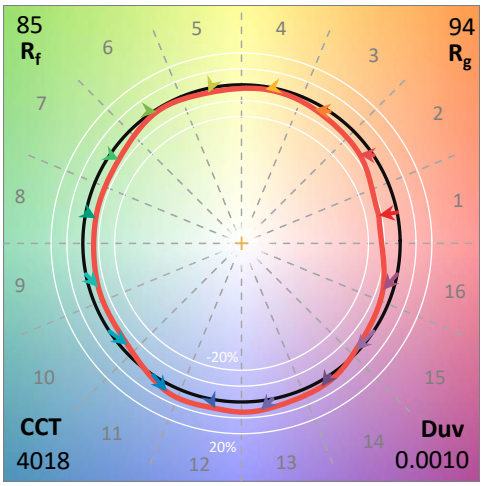
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2304-001-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	05/31/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	**OHB-15SE-N-UNV-L840**
Description:	15SE OHB WITH APT LEDS, NARROW LENS, 80CRI 4000K

Spectral Parameters

CCT (K):	4018	CRI (Ra):	84.0		
CIE u':	0.2242	R1:	82.5	R9:	11.5
CIE v':	0.5025	R2:	91.6	R10:	79.8
Duv:	0.0010	R3:	96.1	R11:	80.5
CIE x:	0.3803	R4:	81.4	R12:	64.0
CIE y:	0.3788	R5:	82.4	R13:	85.1
CIE z:	0.2410	R6:	88.0	R14:	98.4
Peak Wavelength (nm):	454	R7:	85.5		
Dominant Wavelength (nm):	578	R8:	64.7		
Purity:	27.9				

Rf:	84.5
Rg:	93.7



Test Conditions

Stabilization Time:	23M
Operation Time:	12H
Room Temperature (°C) / RH%:	25.7/44%
Sphere Temperature (°C):	25.3

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REPORT NUMBER: SP1-2304-001-1

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	2/9/2023	8/9/2023
Power Meter	XITRON 2801 IN0071	11/29/2022	11/29/2023
AC Power Source	CHROMA 61603 IN0063	11/28/2022	11/28/2023
DC Power Source	AGILENT E3634A IN0208	11/28/2022	11/28/2023
Sphere Thermometer	ONSET IN0085	11/28/2022	11/28/2023
Room Thermometer	ONSET IN0046	11/28/2022	11/28/2023

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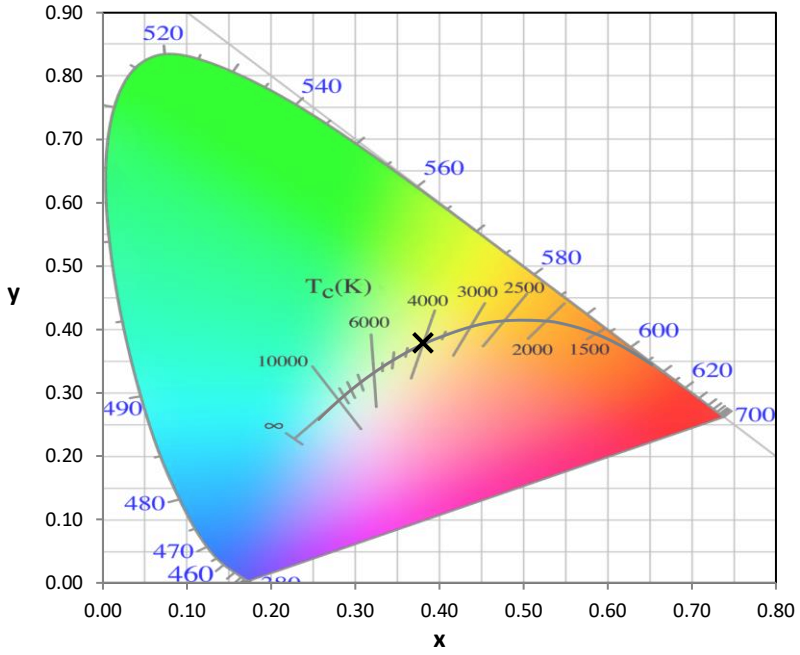
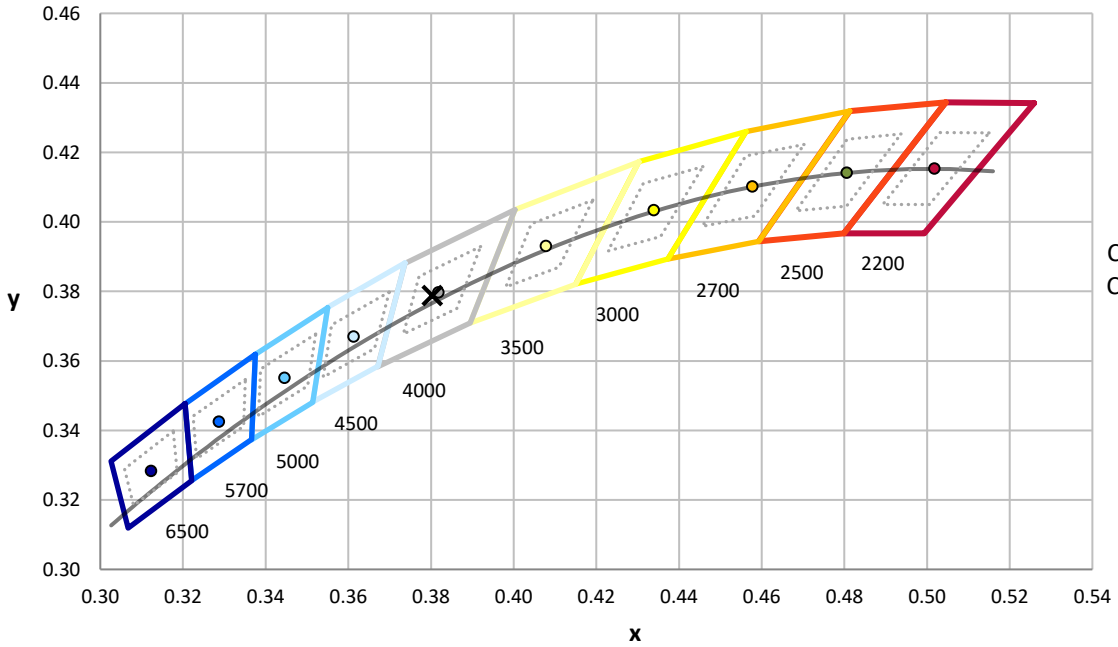
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



CCT = 4018K
CIE x = 0.3803
CIE y = 0.3788
Duv = 0.0010

Point lies inside the ANSI 4000K 4-step quadrangle

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Peachtree City, GA 30269

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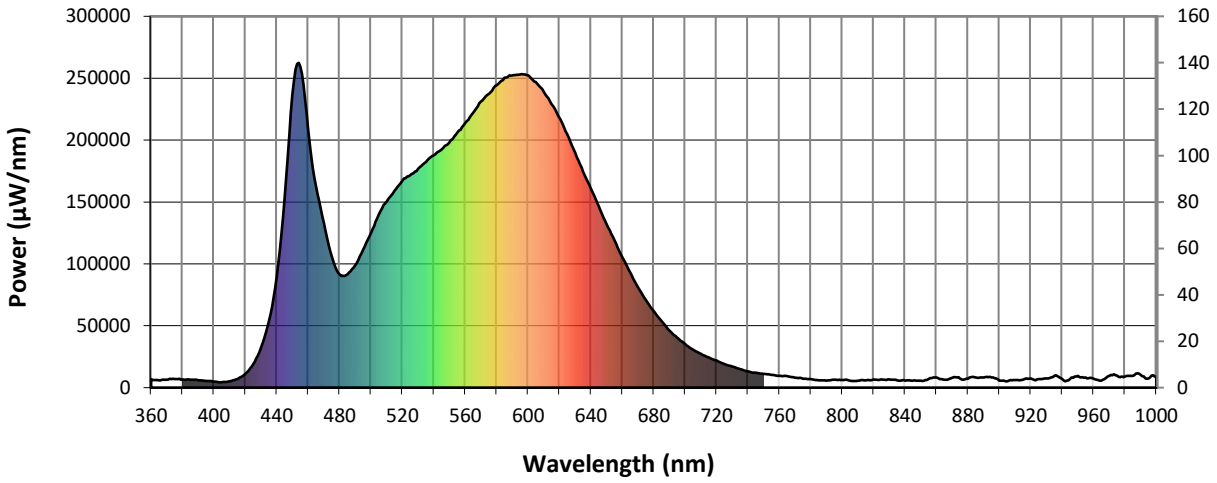
Photopic Flux vs. Wavelength



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λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	6853	NR	490	98921	NR	620	217813	NR	750	11077	NR	880	7212	NR
365	5941	NR	495	111249	NR	625	204757	NR	755	10374	NR	885	8336	NR
370	6345	NR	500	125186	NR	630	189812	NR	760	9527	NR	890	8299	NR
375	7044	NR	505	139782	NR	635	174714	NR	765	9227	NR	895	8295	NR
380	6587	NR	510	150374	NR	640	160641	NR	770	8071	NR	900	5725	NR
385	6443	NR	515	158837	NR	645	146146	NR	775	7303	NR	905	5085	NR
390	5977	NR	520	167163	NR	650	132087	NR	780	6839	NR	910	6133	NR
395	5473	NR	525	171514	NR	655	118817	NR	785	5988	NR	915	6429	NR
400	4874	NR	530	176783	NR	660	105411	NR	790	5761	NR	920	7354	NR
405	4470	NR	535	182412	NR	665	92911	NR	795	6396	NR	925	6889	NR
410	5232	NR	540	187578	NR	670	81240	NR	800	6049	NR	930	7465	NR
415	7030	NR	545	192635	NR	675	70762	NR	805	5748	NR	935	9430	NR
420	11074	NR	550	198282	NR	680	61913	NR	810	5571	NR	940	6867	NR
425	19121	NR	555	206255	NR	685	53742	NR	815	5977	NR	945	7026	NR
430	32148	NR	560	213621	NR	690	46348	NR	820	6580	NR	950	9476	NR
435	54073	NR	565	222021	NR	695	40313	NR	825	6610	NR	955	8237	NR
440	89242	NR	570	230974	NR	700	35240	NR	830	6652	NR	960	7127	NR
445	153497	NR	575	237268	NR	705	30635	NR	835	5919	NR	965	5614	NR
450	236793	NR	580	244317	NR	710	27359	NR	840	5707	NR	970	9396	NR
455	259282	NR	585	250340	NR	715	24401	NR	845	5548	NR	975	9700	NR
460	209272	NR	590	252316	NR	720	21810	NR	850	5560	NR	980	8916	NR
465	162456	NR	595	253019	NR	725	19005	NR	855	6972	NR	985	9548	NR
470	132627	NR	600	252244	NR	730	17009	NR	860	8311	NR	990	10271	NR
475	106283	NR	605	246798	NR	735	14940	NR	865	6330	NR	995	7323	NR
480	91347	NR	610	238764	NR	740	13159	NR	870	8019	NR	1000	8719	NR
485	91575	NR	615	229100	NR	745	12000	NR	875	7419	NR			

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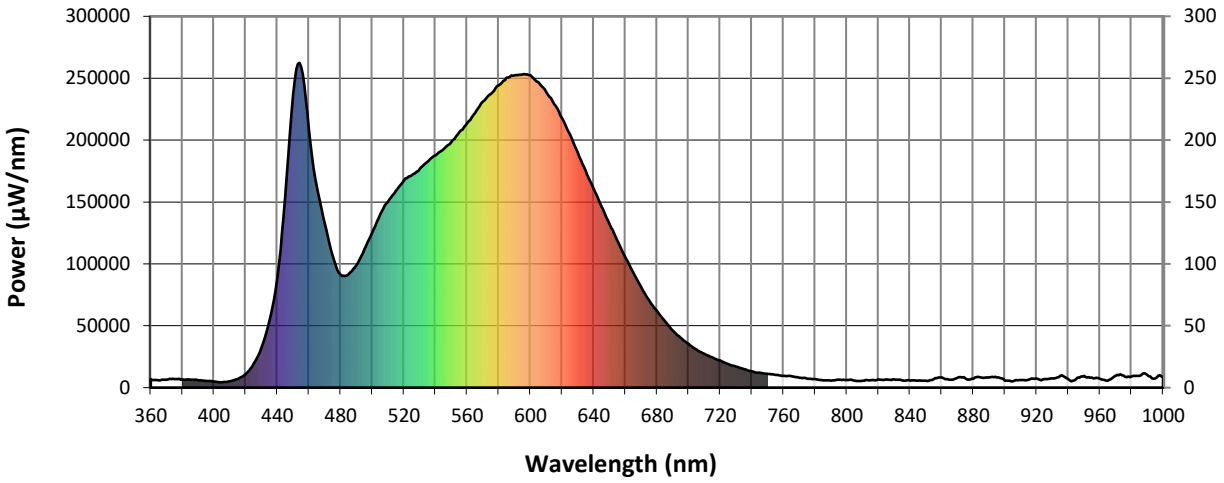
Scotopic Flux vs. Wavelength



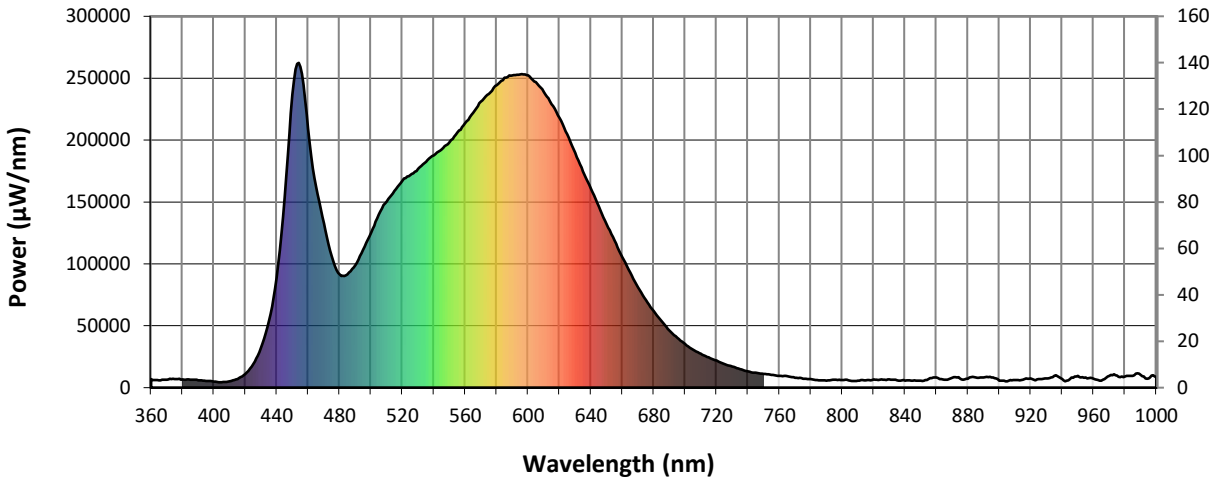
Scotopic Lumens: 25258.1 **S/P: 1.73**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	6853	NR	490	98921	NR	620	217813	NR	750	11077	NR	880	7212	NR
365	5941	NR	495	111249	NR	625	204757	NR	755	10374	NR	885	8336	NR
370	6345	NR	500	125186	NR	630	189812	NR	760	9527	NR	890	8299	NR
375	7044	NR	505	139782	NR	635	174714	NR	765	9227	NR	895	8295	NR
380	6587	NR	510	150374	NR	640	160641	NR	770	8071	NR	900	5725	NR
385	6443	NR	515	158837	NR	645	146146	NR	775	7303	NR	905	5085	NR
390	5977	NR	520	167163	NR	650	132087	NR	780	6839	NR	910	6133	NR
395	5473	NR	525	171514	NR	655	118817	NR	785	5988	NR	915	6429	NR
400	4874	NR	530	176783	NR	660	105411	NR	790	5761	NR	920	7354	NR
405	4470	NR	535	182412	NR	665	92911	NR	795	6396	NR	925	6889	NR
410	5232	NR	540	187578	NR	670	81240	NR	800	6049	NR	930	7465	NR
415	7030	NR	545	192635	NR	675	70762	NR	805	5748	NR	935	9430	NR
420	11074	NR	550	198282	NR	680	61913	NR	810	5571	NR	940	6867	NR
425	19121	NR	555	206255	NR	685	53742	NR	815	5977	NR	945	7026	NR
430	32148	NR	560	213621	NR	690	46348	NR	820	6580	NR	950	9476	NR
435	54073	NR	565	222021	NR	695	40313	NR	825	6610	NR	955	8237	NR
440	89242	NR	570	230974	NR	700	35240	NR	830	6652	NR	960	7127	NR
445	153497	NR	575	237268	NR	705	30635	NR	835	5919	NR	965	5614	NR
450	236793	NR	580	244317	NR	710	27359	NR	840	5707	NR	970	9396	NR
455	259282	NR	585	250340	NR	715	24401	NR	845	5548	NR	975	9700	NR
460	209272	NR	590	252316	NR	720	21810	NR	850	5560	NR	980	8916	NR
465	162456	NR	595	253019	NR	725	19005	NR	855	6972	NR	985	9548	NR
470	132627	NR	600	252244	NR	730	17009	NR	860	8311	NR	990	10271	NR
475	106283	NR	605	246798	NR	735	14940	NR	865	6330	NR	995	7323	NR
480	91347	NR	610	238764	NR	740	13159	NR	870	8019	NR	1000	8719	NR
485	91575	NR	615	229100	NR	745	12000	NR	875	7419	NR			

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

REPORT NUMBER: SP1-2304-001-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: 10357.9 M/P: 0.71

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	6853	NR	490	98921	NR	620	217813	NR	750	11077	NR	880	7212	NR
365	5941	NR	495	111249	NR	625	204757	NR	755	10374	NR	885	8336	NR
370	6345	NR	500	125186	NR	630	189812	NR	760	9527	NR	890	8299	NR
375	7044	NR	505	139782	NR	635	174714	NR	765	9227	NR	895	8295	NR
380	6587	NR	510	150374	NR	640	160641	NR	770	8071	NR	900	5725	NR
385	6443	NR	515	158837	NR	645	146146	NR	775	7303	NR	905	5085	NR
390	5977	NR	520	167163	NR	650	132087	NR	780	6839	NR	910	6133	NR
395	5473	NR	525	171514	NR	655	118817	NR	785	5988	NR	915	6429	NR
400	4874	NR	530	176783	NR	660	105411	NR	790	5761	NR	920	7354	NR
405	4470	NR	535	182412	NR	665	92911	NR	795	6396	NR	925	6889	NR
410	5232	NR	540	187578	NR	670	81240	NR	800	6049	NR	930	7465	NR
415	7030	NR	545	192635	NR	675	70762	NR	805	5748	NR	935	9430	NR
420	11074	NR	550	198282	NR	680	61913	NR	810	5571	NR	940	6867	NR
425	19121	NR	555	206255	NR	685	53742	NR	815	5977	NR	945	7026	NR
430	32148	NR	560	213621	NR	690	46348	NR	820	6580	NR	950	9476	NR
435	54073	NR	565	222021	NR	695	40313	NR	825	6610	NR	955	8237	NR
440	89242	NR	570	230974	NR	700	35240	NR	830	6652	NR	960	7127	NR
445	153497	NR	575	237268	NR	705	30635	NR	835	5919	NR	965	5614	NR
450	236793	NR	580	244317	NR	710	27359	NR	840	5707	NR	970	9396	NR
455	259282	NR	585	250340	NR	715	24401	NR	845	5548	NR	975	9700	NR
460	209272	NR	590	252316	NR	720	21810	NR	850	5560	NR	980	8916	NR
465	162456	NR	595	253019	NR	725	19005	NR	855	6972	NR	985	9548	NR
470	132627	NR	600	252244	NR	730	17009	NR	860	8311	NR	990	10271	NR
475	106283	NR	605	246798	NR	735	14940	NR	865	6330	NR	995	7323	NR
480	91347	NR	610	238764	NR	740	13159	NR	870	8019	NR	1000	8719	NR
485	91575	NR	615	229100	NR	745	12000	NR	875	7419	NR			

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

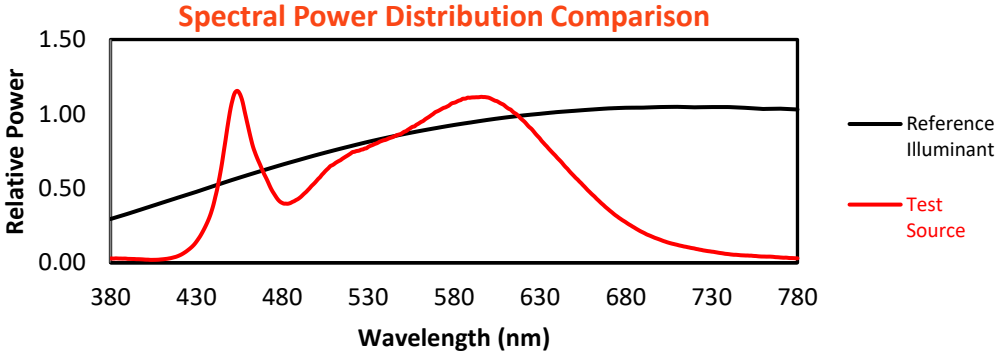
REPORT NUMBER: SP1-2304-001-1

TM-30-18

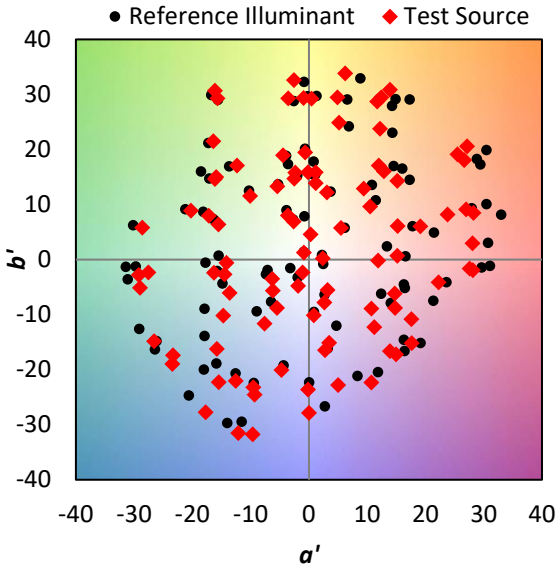
Summary

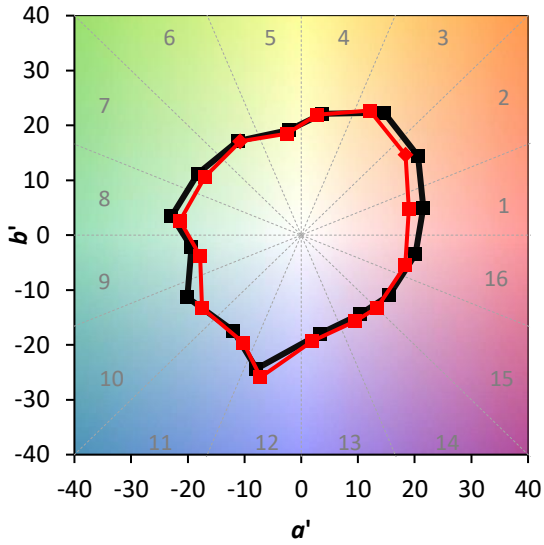
R_f = 84.5
R_g = 93.7
CIE R_a = 84.0
R_9 = 11.5

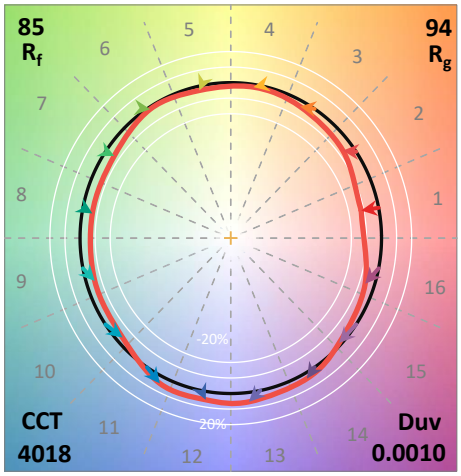
Spectral Power Distribution Comparison

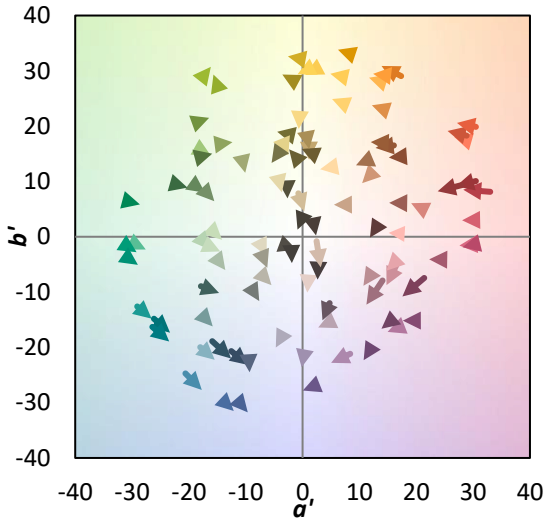


Color Vector Graphics









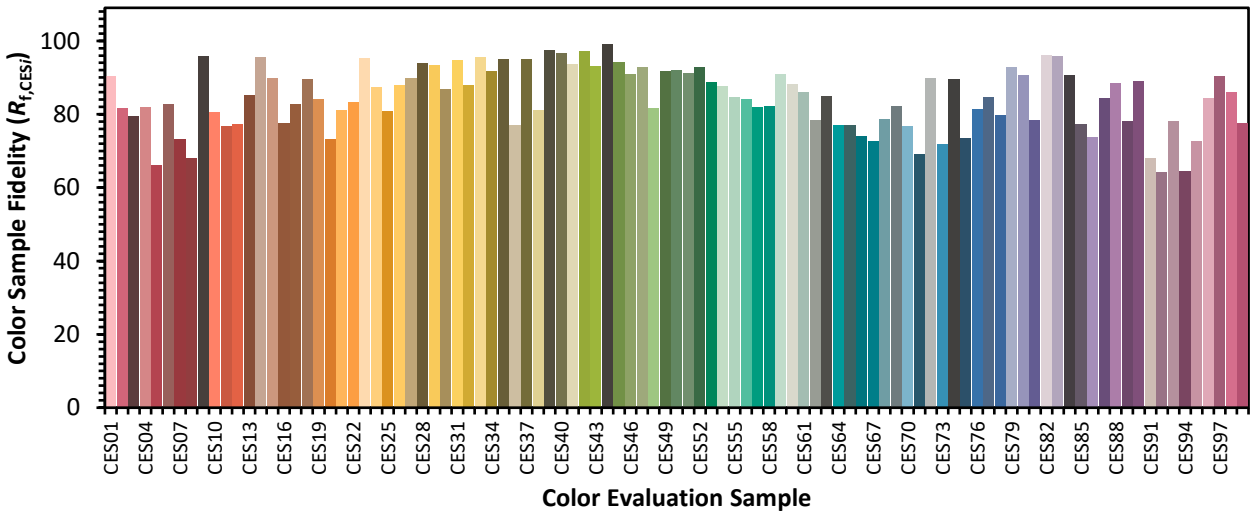
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2304-001-1

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 88	CES51 = 91	CES76 = 81
CES02 = 61	CES27 = 90	CES52 = 93	CES77 = 85
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 80
CES04 = 69	CES29 = 93	CES54 = 88	CES79 = 93
CES05 = 48	CES30 = 87	CES55 = 85	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 84	CES81 = 78
CES07 = 41	CES32 = 88	CES57 = 82	CES82 = 96
CES08 = 40	CES33 = 96	CES58 = 82	CES83 = 96
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 74	CES35 = 95	CES60 = 88	CES85 = 77
CES11 = 57	CES36 = 77	CES61 = 86	CES86 = 74
CES12 = 63	CES37 = 95	CES62 = 78	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 77	CES89 = 78
CES15 = 71	CES40 = 97	CES65 = 77	CES90 = 89
CES16 = 47	CES41 = 94	CES66 = 74	CES91 = 68
CES17 = 49	CES42 = 97	CES67 = 73	CES92 = 64
CES18 = 56	CES43 = 93	CES68 = 79	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 77	CES95 = 73
CES21 = 86	CES46 = 91	CES71 = 69	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 90	CES97 = 90
CES23 = 91	CES48 = 82	CES73 = 72	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 90	CES99 = 77
CES25 = 71	CES50 = 92	CES75 = 74	

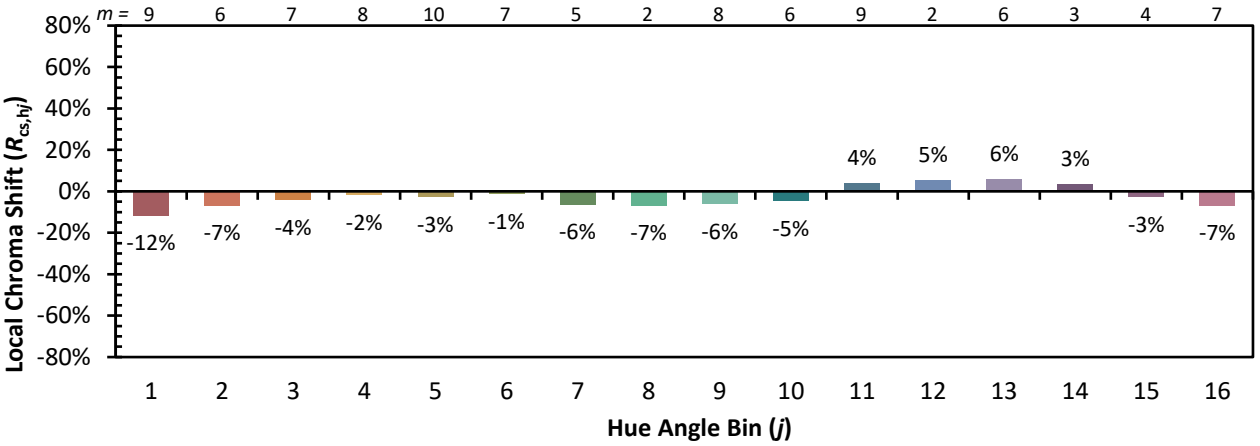


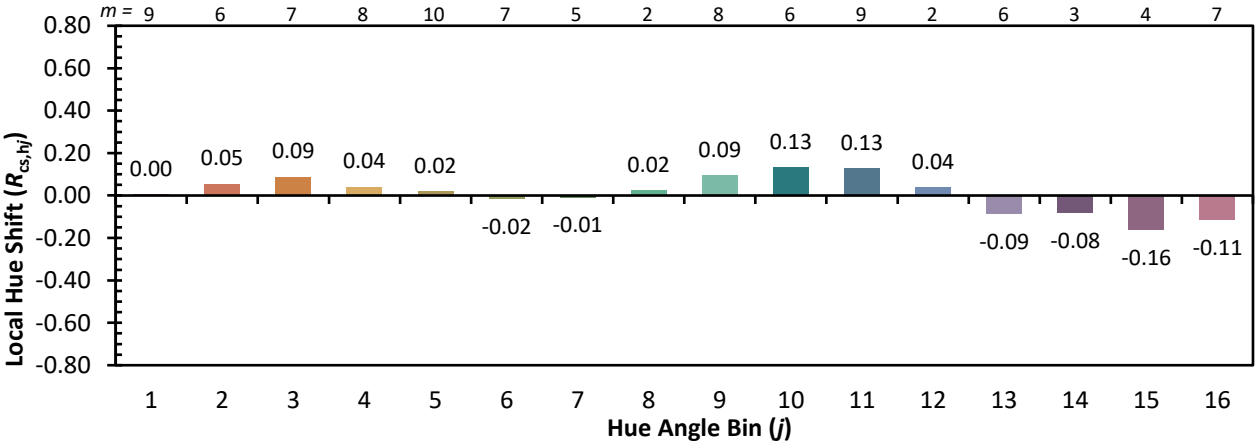
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

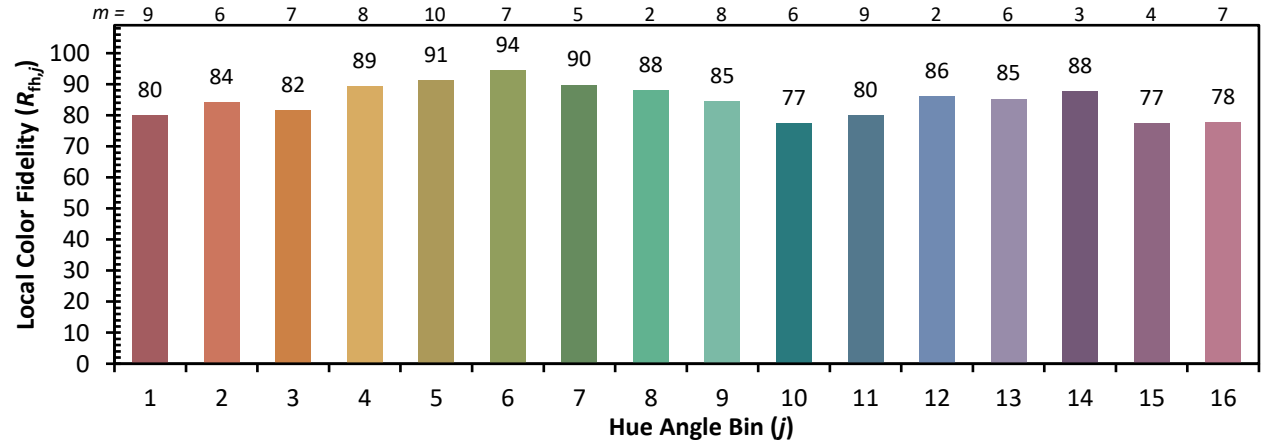
REPORT NUMBER: SP1-2304-001-1

TM-30-18

Color Rendition by Hue-Angle Bin





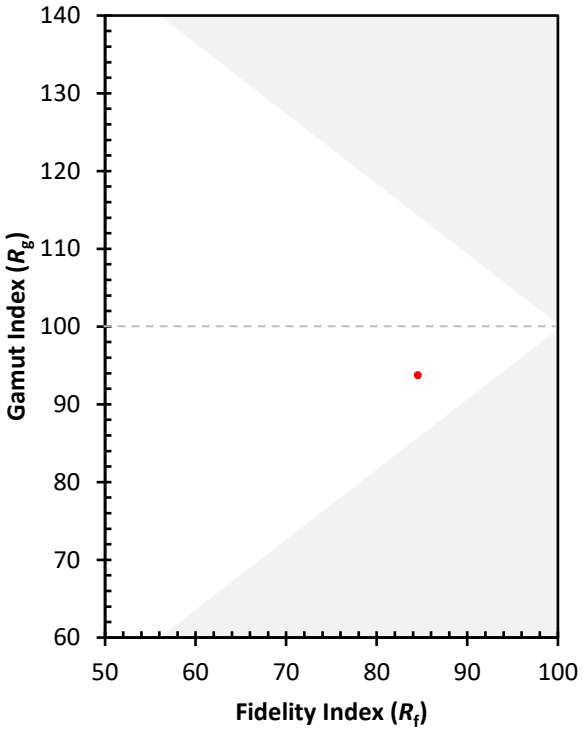


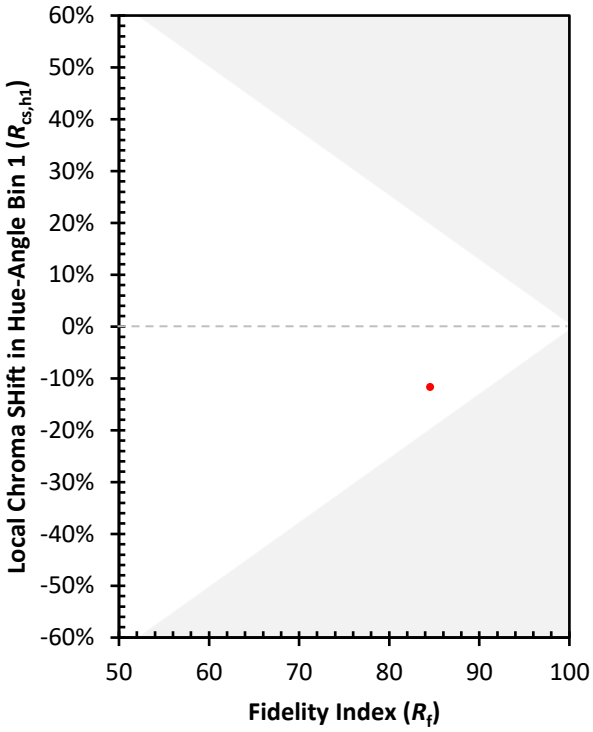
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2304-001-1

TM-30-18

Measure Comparisons





(END OF REPORT)