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

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: METALUX

Report Number: P1433828

Luminaire Tested: EHBR1-36-UNV-A1-L940-UPL15

Issue Date: 3/20/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1433828
	REPORT IS A COMBINATION OF REPORTS P1431765 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-A1-L940-UPL15
Description:	Elevate Round Highbay at, 36000 lumens, 4000K 90CRI LEDs with A lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	34928.3 lumens
Efficiency:	N/A
Efficacy:	174.0 lumens/watt
Spacing Criteria (0/90/45):	0.8 / 1.07 / 0.95
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	200.7
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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Scaled Data Report

TEST NUMBER: P1433828
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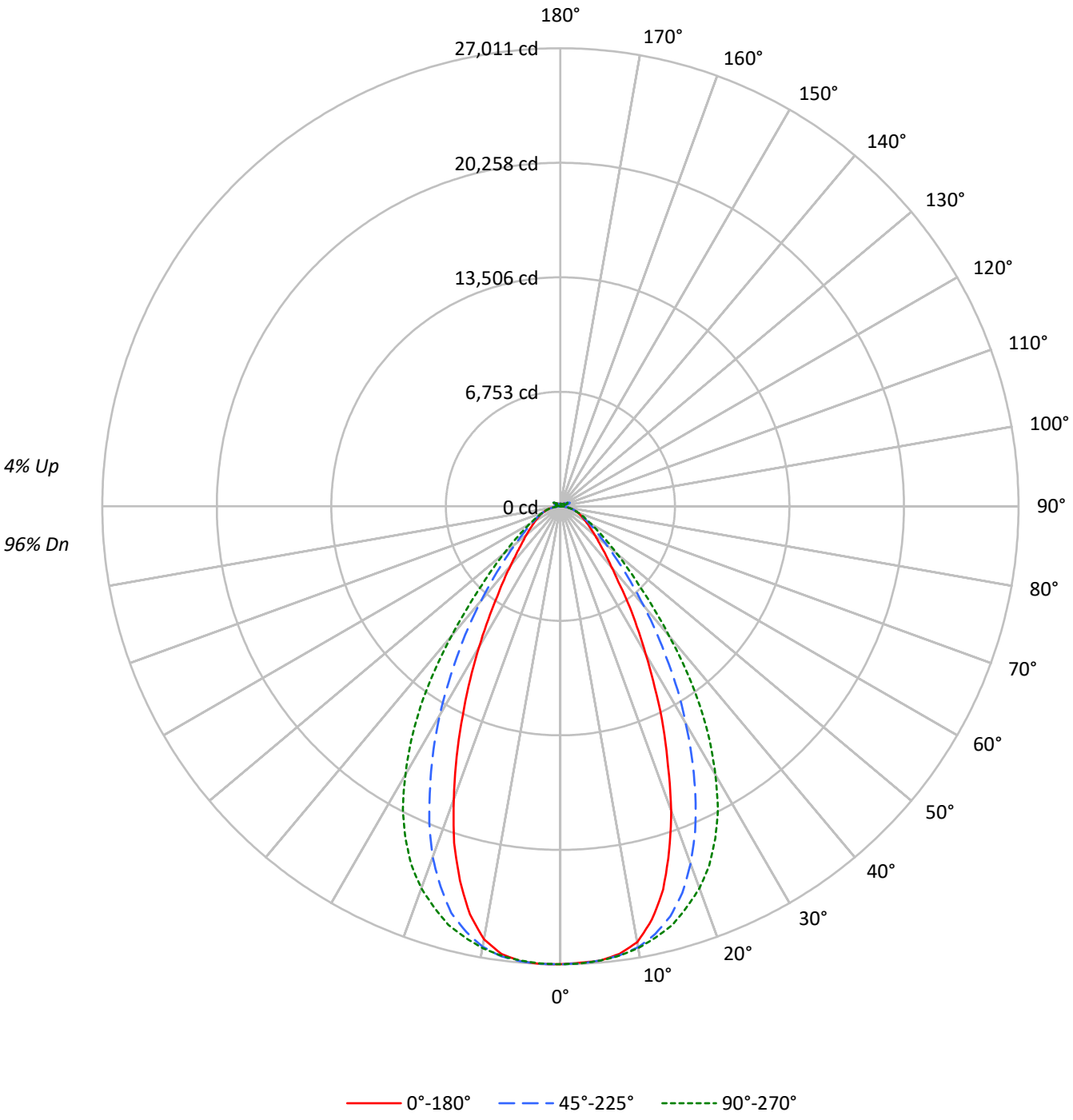
Luminous Intensity Polar Plot



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	111	107	104	101	108	105	102	99	100	97	95	95	93	92	91	90	88	86
2	103	97	92	88	101	95	90	86	91	87	84	87	84	81	84	81	79	77
3	97	89	82	77	94	87	81	76	83	79	75	80	76	73	78	74	71	69
4	90	81	74	69	88	80	73	68	77	71	67	74	70	66	72	68	65	63
5	85	75	68	62	83	73	67	62	71	65	61	69	64	60	67	62	59	57
6	80	69	62	57	78	68	61	56	66	60	56	64	59	55	62	58	54	52
7	75	64	57	52	73	63	56	52	61	55	51	60	54	50	58	53	50	48
8	71	60	53	48	69	59	52	48	57	51	47	56	51	47	55	50	46	45
9	67	56	49	44	65	55	48	44	54	48	44	52	47	43	51	46	43	41
10	63	52	46	41	62	52	45	41	50	45	41	49	44	40	48	43	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	126793	126793	126793	126793	126793
5°	125955	125936	125941	126164	126087
10°	122841	124273	124470	124119	122037
15°	111519	119302	121757	118345	108959
20°	92931	109146	116602	107090	89313
25°	71870	94373	108169	90927	68146
30°	52387	76856	95019	73939	49723
35°	37762	59237	78090	56686	35297
40°	27168	43752	57550	41905	26330
45°	21408	32008	40194	30621	20667
50°	17762	24049	29092	23256	17492
55°	15512	18989	22032	18672	15303
60°	13990	15852	17556	15753	14088
65°	13084	13983	14752	14027	13208
70°	12426	12722	13115	12793	12548
75°	11592	11520	11592	11552	11704
80°	10470	9717	9503	9868	10470
85°	7256	6154	6087	6253	7472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 42113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2549.7	7.3
10°-20°	6852.7	19.6
20°-30°	8332.8	23.9
30°-40°	6787.7	19.4
40°-50°	4075.3	11.7
50°-60°	2345.4	6.7
60°-70°	1467.8	4.2
70°-80°	864.5	2.5
80°-90°	255.3	0.7
90°-100°	36.6	0.1
100°-110°	241.8	0.7
110°-120°	447.2	1.3
120°-130°	265.6	0.8
130°-140°	161.3	0.5
140°-150°	112.9	0.3
150°-160°	74.3	0.2
160°-170°	43.1	0.1
170°-180°	14.4	0.0
0°-30°	17735.2	50.8
0°-40°	24522.8	70.2
0°-60°	30943.5	88.6
0°-90°	33531.1	96.0
90°-120°	725.6	2.1
90°-150°	1265.4	3.6
90°-180°	1397.0	4.0
0°-180°	34928.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27000	27000	27000	27000	27000	
5°	26893	26889	26890	26938	26922	2542
15°	23396	25029	25544	24828	22859	6437
25°	14352	18846	21601	18158	13609	6539
35°	6931	10872	14332	10404	6478	4385
45°	3464	5179	6503	4954	3344	2732
55°	2096	2566	2977	2523	2068	1895
65°	1366	1460	1540	1464	1379	1358
75°	817	812	817	814	824	865
85°	249	212	209	215	257	266
90°	11	28	10	29	10	17
95°	18	62	19	53	18	17
105°	85	423	111	450	56	114
115°	388	500	476	553	406	357
125°	280	267	304	296	319	256
135°	206	206	193	216	223	161
145°	172	179	176	182	185	109
155°	155	158	157	159	167	72
165°	150	152	150	151	156	43
175°	152	153	150	151	156	14
180°	152	152	152	152	152	

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Scaled Data Report

TEST NUMBER: P1433828
CATALOG NUMBER: EHBR1-36-UNV-A1-L940-UPL15

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	26999.6	26999.6	26999.6	26999.6	26999.6	26999.6	*26999.6*	26999.6	26999.6
2.5°	*26940.2*	*26964.5*	*26974.7*	*26980.4*	*26986.6*	*27003.6*	*27010.9*	*26999.0*	*27009.2*
5°	26893.3	26894.9	26889.3	26914.8	26890.5	26907.4	*26938.0*	26926.1	26921.5
7.5°	26619.5	26676.1	26709.5	26717.9	26722.5	26743.4	*26764.9*	26643.3	26625.2
10°	26099.3	26193.8	26403.5	26463.5	26445.4	26479.3	*26370.7*	26052.9	25928.5
12.5°	24958.7	25290.6	25835.8	26078.4	26034.3	26064.3	*25694.4*	25023.7	24638.0
15°	23396.2	23883.1	25028.9	25507.3	25544.0	25507.3	*24828.1*	23521.2	22859.1
17.5°	21319.1	22218.4	23905.2	24833.8	24780.6	24798.1	*23508.8*	21577.0	20819.3
20°	19100.1	20058.7	22432.6	23981.5	23965.1	23866.7	*22010.2*	19462.6	18356.5
22.5°	16590.5	17826.7	20745.2	22933.7	22927.4	22763.5	*20185.3*	17153.7	15962.8
25°	14352.3	15564.7	18846.3	21650.0	21601.3	21414.7	*18158.1*	14850.4	13608.6
27.5°	12038.3	13298.8	16819.0	20145.8	20112.4	19908.8	*16220.1*	12697.6	11515.7
30°	10076.6	11229.0	14783.2	18490.6	18276.8	18253.6	*14222.2*	10704.2	9564.2
32.5°	8395.9	9383.8	12863.9	16759.6	16381.2	16489.3	*12231.1*	9037.2	7907.3
35°	6930.7	7801.0	10872.2	14757.7	14332.4	14472.2	*10404.0*	7415.3	6478.3
37.5°	5625.0	6461.9	9184.2	12810.7	12160.4	12424.0	*8796.9*	6192.7	5441.7
40°	4708.9	5372.8	7583.3	10674.3	9974.8	10404.0	*7263.2*	5165.2	4563.6
42.5°	4057.4	4490.6	6258.9	8634.6	8097.9	8402.1	*5986.3*	4318.1	3868.0
45°	3463.7	3809.2	5178.8	6813.7	6503.2	6785.4	*4954.3*	3682.0	3343.8
47.5°	3025.4	3291.8	4263.3	5502.3	5309.5	5398.8	*4137.7*	3213.2	2938.3
50°	2647.1	2852.9	3584.1	4440.9	4335.7	4390.5	*3465.9*	2795.8	2606.9
52.5°	2353.1	2504.0	3006.1	3649.7	3597.6	3606.1	*2953.6*	2459.4	2322.5
55°	2096.3	2201.5	2566.2	2989.7	2977.4	2979.6	*2523.3*	2179.4	2068.0
57.5°	1871.8	1958.9	2205.4	2511.3	2493.3	2497.2	*2185.1*	1935.7	1863.9
60°	1681.8	1740.0	1905.7	2122.3	2110.5	2105.3	*1893.8*	1718.5	1693.6
62.5°	1513.3	1550.6	1665.4	1819.2	1796.6	1801.7	*1664.9*	1552.3	1515.5
65°	1365.7	1378.6	1459.5	1554.5	1539.8	1552.3	*1464.1*	1387.1	1378.6
67.5°	1221.5	1234.4	1281.9	1345.9	1328.9	1339.1	*1283.1*	1237.9	1230.5
70°	1090.3	1089.7	1116.3	1150.8	1150.8	1152.4	*1122.5*	1095.3	1101.0
72.5°	954.6	951.1	959.0	982.2	976.1	997.5	*965.8*	957.4	958.5
75°	816.6	807.0	811.5	823.4	816.6	827.9	*813.8*	824.5	824.5
77.5°	686.5	668.5	662.8	664.4	652.1	669.0	*672.4*	679.7	696.7
80°	550.8	525.4	511.2	510.6	499.9	510.6	*519.1*	534.4	550.8
82.5°	408.9	386.8	363.1	358.5	351.7	357.9	*369.3*	387.4	413.9
85°	249.4	226.2	211.5	203.6	209.2	209.2	*214.9*	240.4	256.8
87.5°	89.9	78.6	64.5	65.0	66.7	69.0	*71.8*	90.5	98.9
90°	11.1	16.2	27.8	17.7	10.0	17.0	*29.3*	15.4	10.5
92.5°	15.2	24.7	44.6	23.1	13.1	23.1	*41.6*	20.8	14.4
95°	18.1	28.5	62.4	30.8	19.3	28.5	*53.1*	23.1	17.5
97.5°	22.6	31.6	71.6	37.7	30.0	35.4	*60.1*	24.7	21.3
100°	29.6	37.0	111.7	46.2	40.1	40.1	*110.1*	28.5	25.0
102.5°	49.7	78.5	237.2	87.0	60.8	78.5	*255.6*	57.8	30.4
105°	85.1	165.6	422.8	182.5	110.9	180.2	*450.5*	150.9	55.8
107.5°	146.6	296.4	557.6	323.5	210.3	336.5	*580.7*	298.8	130.5
110°	273.0	393.5	584.5	444.3	336.5	470.6	*633.8*	409.7	264.5

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Scaled Data Report

TEST NUMBER: P1433828
CATALOG NUMBER: EHBR1-36-UNV-A1-L940-UPL15

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	368.5	422.8	559.8	490.5	438.2	524.4	*619.2*	454.4	366.1
115°	387.8	406.6	499.8	479.0	475.9	516.8	*552.9*	452.8	406.2
117.5°	375.2	371.2	424.4	430.5	459.8	472.8	*477.5*	425.1	408.5
120°	346.9	330.4	354.2	375.8	415.0	409.7	*402.0*	384.9	385.4
122.5°	312.8	293.2	303.4	319.6	358.9	347.3	*339.6*	343.2	354.4
125°	280.4	260.9	267.2	271.1	304.2	292.6	*296.3*	307.8	319.0
127.5°	251.9	238.5	241.9	237.2	258.0	252.6	*264.7*	278.4	287.4
130°	232.7	221.4	226.2	214.8	225.5	226.9	*243.0*	253.7	259.6
132.5°	217.1	209.6	215.8	202.1	205.1	211.9	*226.6*	236.4	239.4
135°	206.1	199.4	206.3	193.4	193.2	202.4	*215.6*	221.7	223.0
137.5°	196.1	190.7	197.6	188.4	186.0	195.4	*205.3*	210.0	209.0
140°	188.0	182.8	190.5	183.5	182.0	191.3	*195.9*	201.8	200.3
142.5°	178.6	175.5	184.1	179.5	177.9	187.1	*189.4*	193.2	192.3
145°	172.3	169.9	179.3	177.1	176.3	183.0	*181.5*	187.4	185.1
147.5°	167.8	165.6	173.8	173.0	173.0	177.7	*175.9*	181.0	179.3
150°	162.9	160.8	168.9	168.2	168.9	172.0	*169.5*	176.0	175.8
152.5°	158.1	156.0	163.3	162.0	162.8	165.8	*163.9*	170.6	171.0
155°	154.8	152.7	158.5	157.4	157.4	159.5	*159.0*	166.4	167.0
157.5°	153.3	151.5	155.8	154.7	154.7	156.0	*156.3*	162.9	163.4
160°	152.2	150.3	153.8	152.7	152.0	154.0	*154.4*	160.1	160.7
162.5°	151.1	149.2	152.8	151.5	150.9	151.5	*151.9*	158.2	158.8
165°	150.1	148.9	151.7	150.6	149.7	150.6	*150.6*	154.9	156.2
167.5°	150.6	149.3	151.4	150.3	149.5	148.8	*150.5*	154.0	155.3
170°	150.5	149.9	151.2	149.3	148.0	148.6	*149.5*	153.0	154.3
172.5°	151.6	151.0	152.4	150.5	149.2	149.7	*149.9*	152.6	154.7
175°	152.5	151.4	152.6	150.9	150.4	150.1	*151.0*	152.9	155.6
177.5°	153.8	152.7	153.2	151.5	150.1	150.6	*152.3*	154.3	157.6
180°	152.3	152.3	152.3	152.3	152.3	152.3	*152.3*	152.3	152.3

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Scaled Data Report

TEST NUMBER: P1433828
CATALOG NUMBER: EHBR1-36-UNV-A1-L940-UPL15

CIE UGR TABLE:

Reflectances:											
	Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.42	19.61	18.85	20.01	20.43	19.40	20.59	19.83	20.99	21.41
	3H	19.89	20.96	20.35	21.38	21.84	20.66	21.72	21.11	22.14	22.61
	4H	20.50	21.49	20.97	21.92	22.41	21.16	22.15	21.63	22.59	23.07
	6H	20.96	21.88	21.45	22.33	22.82	21.52	22.43	22.00	22.88	23.38
	8H	21.11	21.98	21.61	22.45	22.95	21.61	22.48	22.12	22.95	23.45
	12H	21.19	22.02	21.69	22.48	23.01	21.65	22.48	22.16	22.94	23.47
4H	2H	18.94	19.93	19.41	20.36	20.85	19.72	20.71	20.19	21.14	21.63
	3H	20.62	21.44	21.11	21.92	22.42	21.21	22.03	21.69	22.51	23.01
	4H	21.34	22.07	21.84	22.57	23.11	21.83	22.56	22.34	23.06	23.60
	6H	21.92	22.55	22.45	23.08	23.64	22.31	22.94	22.84	23.46	24.02
	8H	22.11	22.70	22.64	23.22	23.78	22.44	23.03	22.98	23.56	24.12
	12H	22.21	22.74	22.77	23.29	23.86	22.51	23.03	23.07	23.59	24.16
8H	4H	21.56	22.16	22.10	22.68	23.24	22.01	22.60	22.55	23.12	23.69
	6H	22.25	22.74	22.82	23.31	23.88	22.59	23.08	23.16	23.65	24.22
	8H	22.51	22.94	23.09	23.52	24.11	22.79	23.22	23.38	23.80	24.39
	12H	22.67	23.05	23.26	23.62	24.28	22.91	23.29	23.49	23.85	24.52
12H	4H	21.57	22.09	22.12	22.64	23.21	22.01	22.53	22.56	23.09	23.65
	6H	22.28	22.71	22.87	23.29	23.88	22.61	23.05	23.20	23.63	24.22
	8H	22.57	22.95	23.16	23.52	24.18	22.85	23.23	23.43	23.80	24.46

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-7

Test Date: 08/04/2025

Luminaire Tested: EHBR-60-L940-N

Data in this report applies to families of products including EHBR-60-L940-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

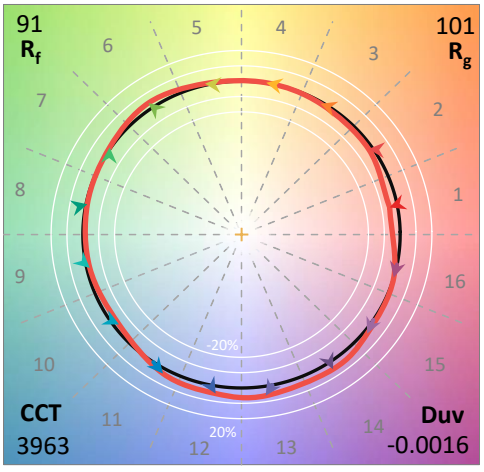
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/05/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**EHBR-60-L940-N**
Description:	Elevate Round Highbay at, 60000 lumens, 4000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	3963
CIE u':	0.2267
CIE v':	0.5003
Duv:	-0.0016
CIE x:	0.3810
CIE y:	0.3738
CIE z:	0.2453
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	580
Purity:	26.49712
Rf:	90.7
Rg:	101

CRI (Ra):	93.4
R1:	95.2
R2:	95.1
R3:	93.3
R4:	94.5
R5:	94.2
R6:	92.9
R7:	94.0
R8:	87.7
R9:	66.4
R10:	86.6
R11:	94.4
R12:	75.4
R13:	95.0
R14:	95.4
R15:	92.8



Test Conditions

Stabilization Time:	44M
Operation Time:	1H 44M
Sphere Temperature (°C):	25.0

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

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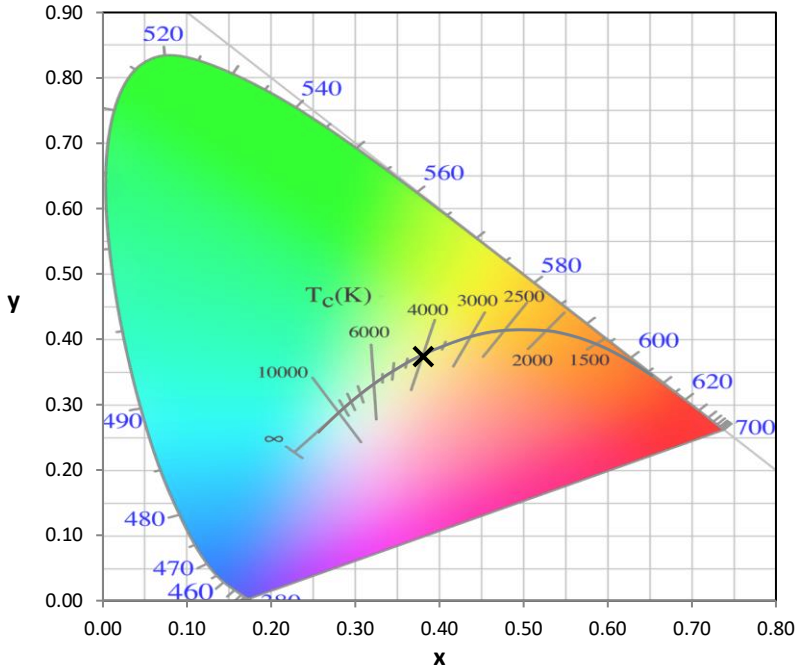
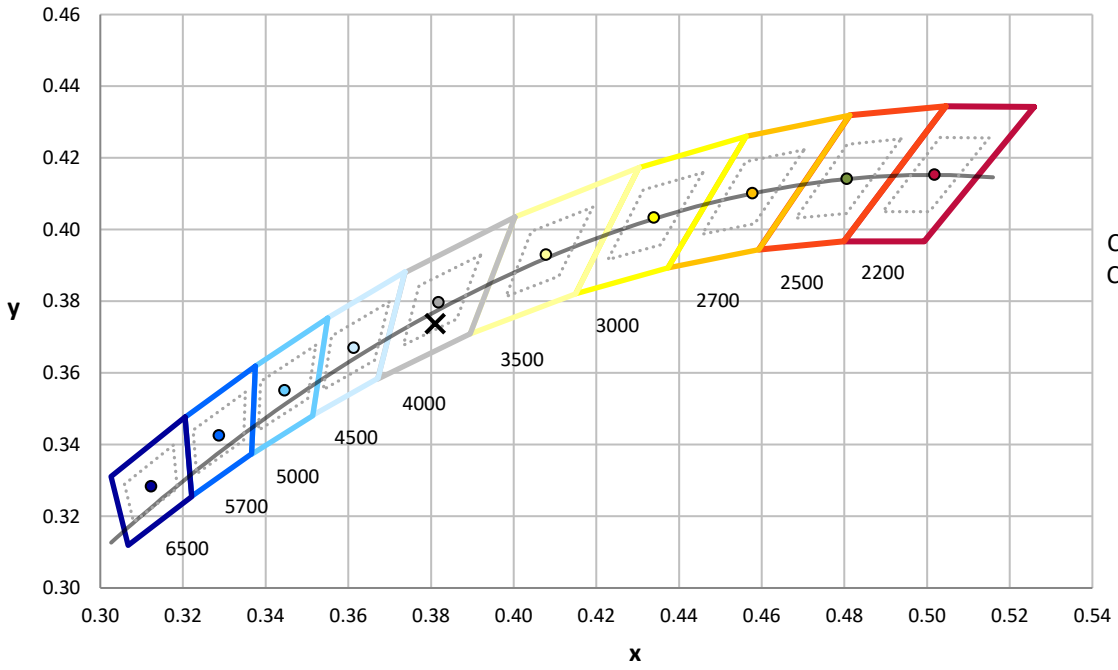
CIE 1931 Chromaticity Diagram



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



CCT = 3963K
CIE x = 0.3810
CIE y = 0.3738
Duv = -0.0016

Point lies inside the ANSI 4000K 4-step quadrangle

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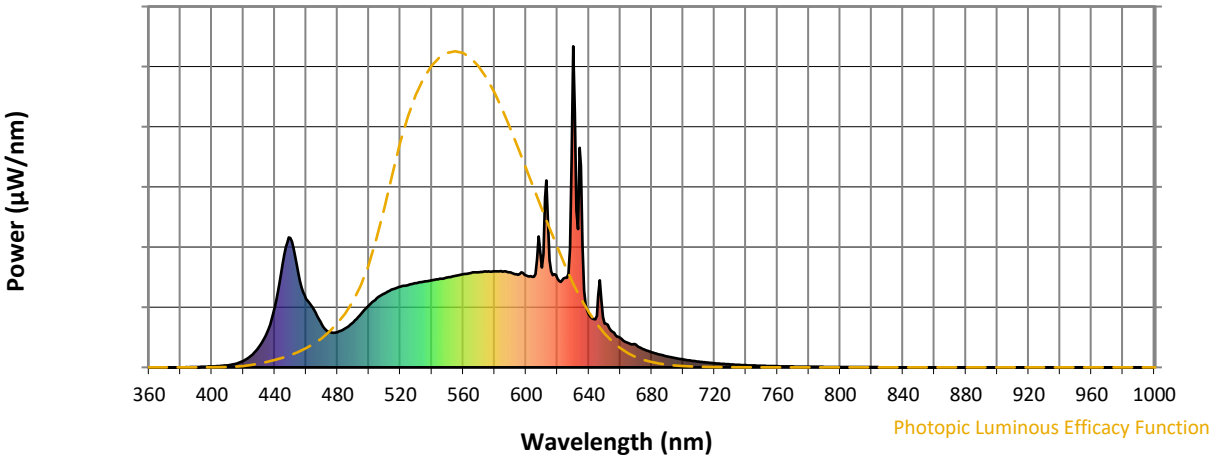
Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	141	NR	620	276	NR	750	5	NR	880	0	NR
365	0	NR	495	167	NR	625	279	NR	755	4	NR	885	0	NR
370	0	NR	500	193	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	215	NR	635	628	NR	765	3	NR	895	0	NR
380	0	NR	510	230	NR	640	164	NR	770	3	NR	900	0	NR
385	0	NR	515	243	NR	645	161	NR	775	2	NR	905	0	NR
390	1	NR	520	251	NR	650	137	NR	780	2	NR	910	0	NR
395	2	NR	525	256	NR	655	111	NR	785	2	NR	915	0	NR
400	3	NR	530	262	NR	660	92	NR	790	1	NR	920	0	NR
405	4	NR	535	267	NR	665	76	NR	795	1	NR	925	0	NR
410	6	NR	540	271	NR	670	71	NR	800	1	NR	930	0	NR
415	11	NR	545	276	NR	675	56	NR	805	1	NR	935	0	NR
420	20	NR	550	280	NR	680	47	NR	810	1	NR	940	0	NR
425	37	NR	555	285	NR	685	40	NR	815	1	NR	945	0	NR
430	63	NR	560	290	NR	690	34	NR	820	1	NR	950	0	NR
435	108	NR	565	294	NR	695	29	NR	825	1	NR	955	0	NR
440	186	NR	570	296	NR	700	25	NR	830	0	NR	960	0	NR
445	323	NR	575	298	NR	705	21	NR	835	0	NR	965	0	NR
450	403	NR	580	299	NR	710	18	NR	840	0	NR	970	0	NR
455	293	NR	585	298	NR	715	15	NR	845	0	NR	975	0	NR
460	214	NR	590	296	NR	720	13	NR	850	0	NR	980	0	NR
465	180	NR	595	288	NR	725	11	NR	855	0	NR	985	0	NR
470	132	NR	600	286	NR	730	9	NR	860	0	NR	990	0	NR
475	109	NR	605	282	NR	735	8	NR	865	0	NR	995	0	NR
480	110	NR	610	311	NR	740	7	NR	870	0	NR	1000	0	NR
485	121	NR	615	334	NR	745	6	NR	875	0	NR			

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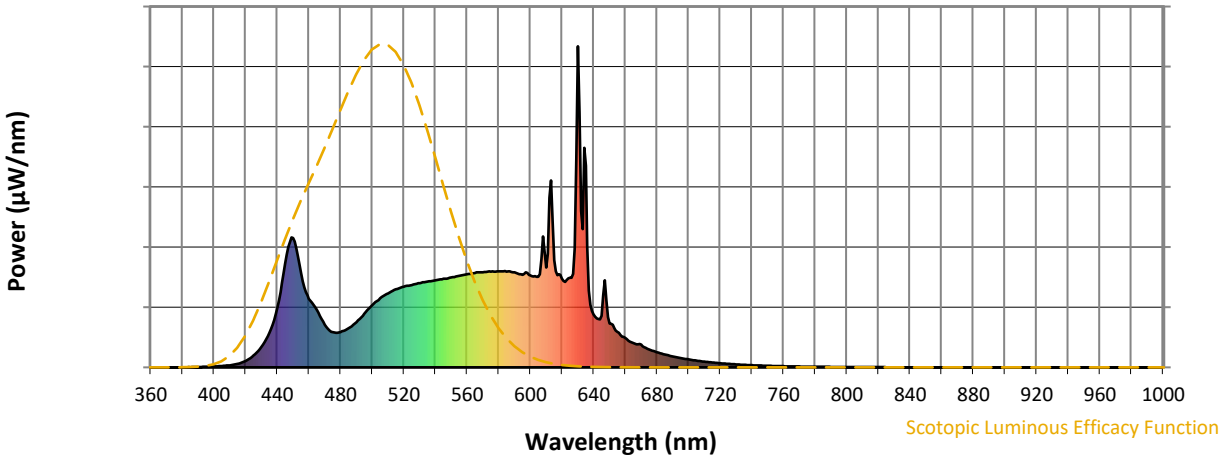
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.76**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	141	NR	620	276	NR	750	5	NR	880	0	NR
365	0	NR	495	167	NR	625	279	NR	755	4	NR	885	0	NR
370	0	NR	500	193	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	215	NR	635	628	NR	765	3	NR	895	0	NR
380	0	NR	510	230	NR	640	164	NR	770	3	NR	900	0	NR
385	0	NR	515	243	NR	645	161	NR	775	2	NR	905	0	NR
390	1	NR	520	251	NR	650	137	NR	780	2	NR	910	0	NR
395	2	NR	525	256	NR	655	111	NR	785	2	NR	915	0	NR
400	3	NR	530	262	NR	660	92	NR	790	1	NR	920	0	NR
405	4	NR	535	267	NR	665	76	NR	795	1	NR	925	0	NR
410	6	NR	540	271	NR	670	71	NR	800	1	NR	930	0	NR
415	11	NR	545	276	NR	675	56	NR	805	1	NR	935	0	NR
420	20	NR	550	280	NR	680	47	NR	810	1	NR	940	0	NR
425	37	NR	555	285	NR	685	40	NR	815	1	NR	945	0	NR
430	63	NR	560	290	NR	690	34	NR	820	1	NR	950	0	NR
435	108	NR	565	294	NR	695	29	NR	825	1	NR	955	0	NR
440	186	NR	570	296	NR	700	25	NR	830	0	NR	960	0	NR
445	323	NR	575	298	NR	705	21	NR	835	0	NR	965	0	NR
450	403	NR	580	299	NR	710	18	NR	840	0	NR	970	0	NR
455	293	NR	585	298	NR	715	15	NR	845	0	NR	975	0	NR
460	214	NR	590	296	NR	720	13	NR	850	0	NR	980	0	NR
465	180	NR	595	288	NR	725	11	NR	855	0	NR	985	0	NR
470	132	NR	600	286	NR	730	9	NR	860	0	NR	990	0	NR
475	109	NR	605	282	NR	735	8	NR	865	0	NR	995	0	NR
480	110	NR	610	311	NR	740	7	NR	870	0	NR	1000	0	NR
485	121	NR	615	334	NR	745	6	NR	875	0	NR			

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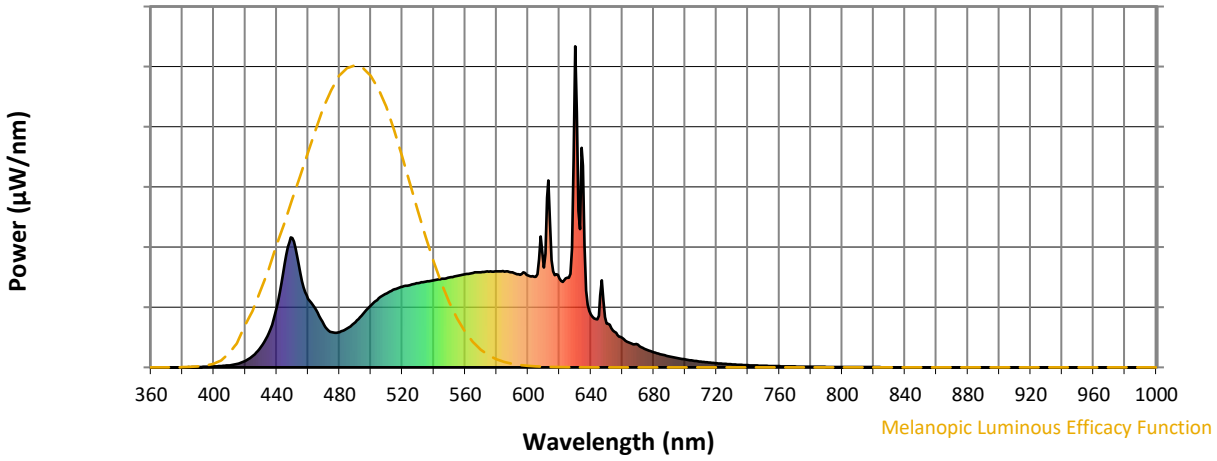
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.64**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	141	NR	620	276	NR	750	5	NR	880	0	NR
365	0	NR	495	167	NR	625	279	NR	755	4	NR	885	0	NR
370	0	NR	500	193	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	215	NR	635	628	NR	765	3	NR	895	0	NR
380	0	NR	510	230	NR	640	164	NR	770	3	NR	900	0	NR
385	0	NR	515	243	NR	645	161	NR	775	2	NR	905	0	NR
390	1	NR	520	251	NR	650	137	NR	780	2	NR	910	0	NR
395	2	NR	525	256	NR	655	111	NR	785	2	NR	915	0	NR
400	3	NR	530	262	NR	660	92	NR	790	1	NR	920	0	NR
405	4	NR	535	267	NR	665	76	NR	795	1	NR	925	0	NR
410	6	NR	540	271	NR	670	71	NR	800	1	NR	930	0	NR
415	11	NR	545	276	NR	675	56	NR	805	1	NR	935	0	NR
420	20	NR	550	280	NR	680	47	NR	810	1	NR	940	0	NR
425	37	NR	555	285	NR	685	40	NR	815	1	NR	945	0	NR
430	63	NR	560	290	NR	690	34	NR	820	1	NR	950	0	NR
435	108	NR	565	294	NR	695	29	NR	825	1	NR	955	0	NR
440	186	NR	570	296	NR	700	25	NR	830	0	NR	960	0	NR
445	323	NR	575	298	NR	705	21	NR	835	0	NR	965	0	NR
450	403	NR	580	299	NR	710	18	NR	840	0	NR	970	0	NR
455	293	NR	585	298	NR	715	15	NR	845	0	NR	975	0	NR
460	214	NR	590	296	NR	720	13	NR	850	0	NR	980	0	NR
465	180	NR	595	288	NR	725	11	NR	855	0	NR	985	0	NR
470	132	NR	600	286	NR	730	9	NR	860	0	NR	990	0	NR
475	109	NR	605	282	NR	735	8	NR	865	0	NR	995	0	NR
480	110	NR	610	311	NR	740	7	NR	870	0	NR	1000	0	NR
485	121	NR	615	334	NR	745	6	NR	875	0	NR			

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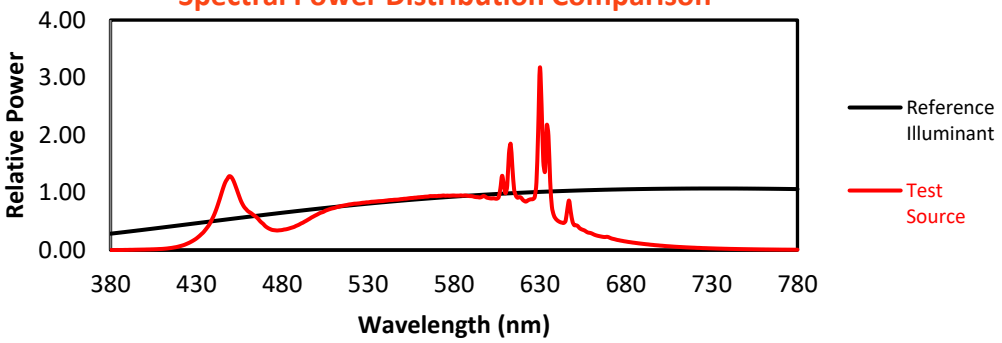
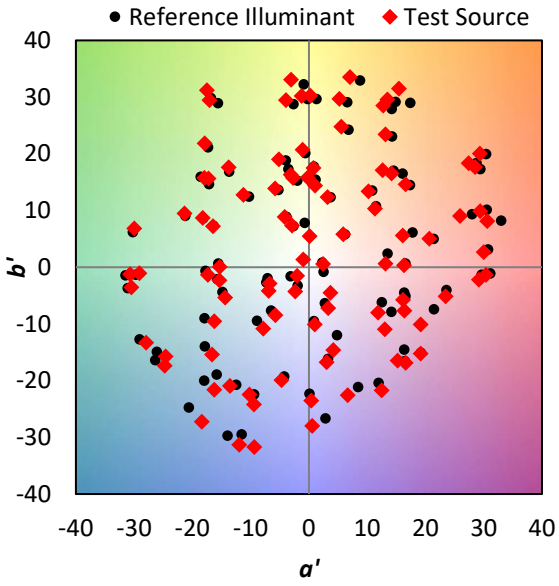
Summary

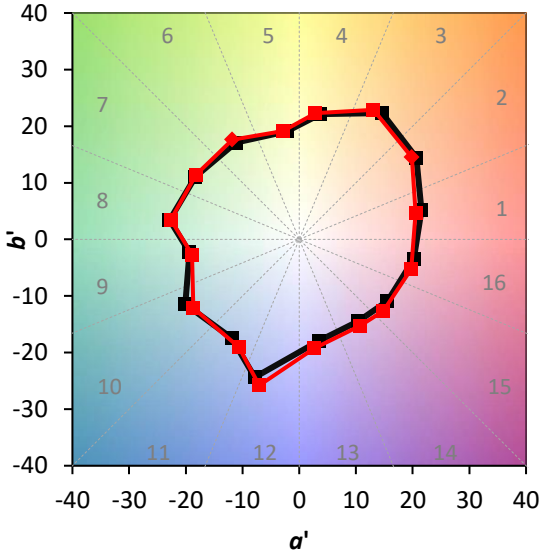
R_f = 90.7
R_g = 101
CIE R_a = 93.4
R_9 = 66.4

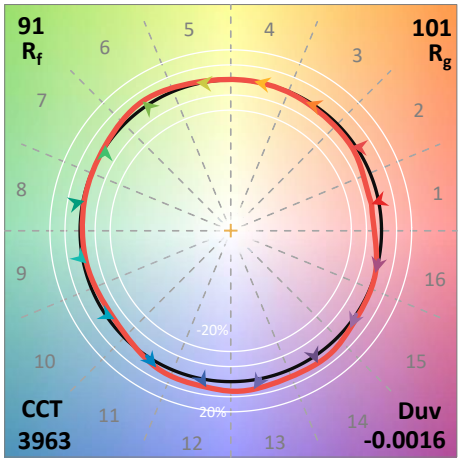
Spectral Power Distribution Comparison

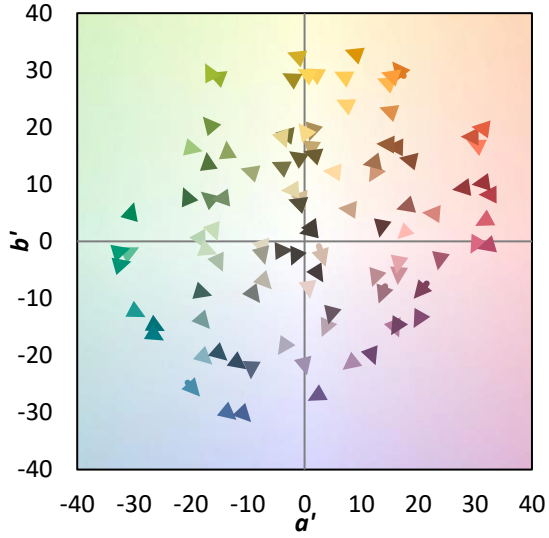


Color Vector Graphics









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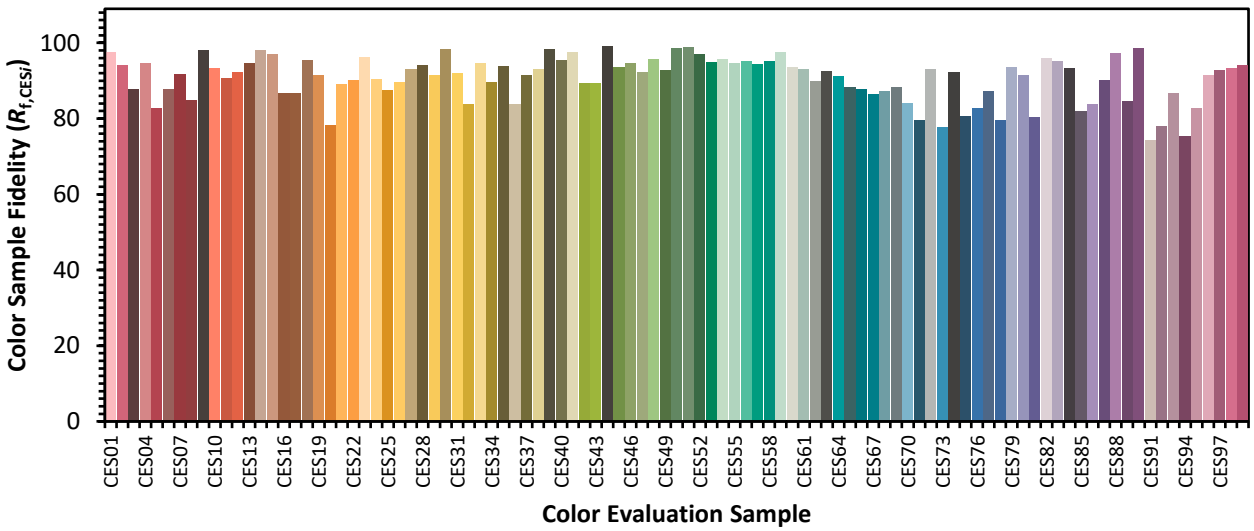
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 90	CES51 = 99	CES76 = 83
CES02 = 62	CES27 = 93	CES52 = 97	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 95	CES78 = 79
CES04 = 69	CES29 = 91	CES54 = 96	CES79 = 94
CES05 = 49	CES30 = 98	CES55 = 95	CES80 = 91
CES06 = 50	CES31 = 92	CES56 = 95	CES81 = 80
CES07 = 42	CES32 = 84	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 95	CES58 = 95	CES83 = 95
CES09 = 29	CES34 = 90	CES59 = 98	CES84 = 93
CES10 = 74	CES35 = 94	CES60 = 93	CES85 = 82
CES11 = 57	CES36 = 84	CES61 = 93	CES86 = 84
CES12 = 63	CES37 = 92	CES62 = 90	CES87 = 90
CES13 = 43	CES38 = 93	CES63 = 92	CES88 = 97
CES14 = 74	CES39 = 98	CES64 = 91	CES89 = 84
CES15 = 71	CES40 = 96	CES65 = 88	CES90 = 99
CES16 = 47	CES41 = 98	CES66 = 88	CES91 = 74
CES17 = 49	CES42 = 89	CES67 = 87	CES92 = 78
CES18 = 56	CES43 = 89	CES68 = 87	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 88	CES94 = 75
CES20 = 66	CES45 = 93	CES70 = 84	CES95 = 83
CES21 = 85	CES46 = 95	CES71 = 80	CES96 = 91
CES22 = 78	CES47 = 92	CES72 = 93	CES97 = 93
CES23 = 91	CES48 = 96	CES73 = 78	CES98 = 93
CES24 = 90	CES49 = 93	CES74 = 92	CES99 = 94
CES25 = 71	CES50 = 99	CES75 = 81	



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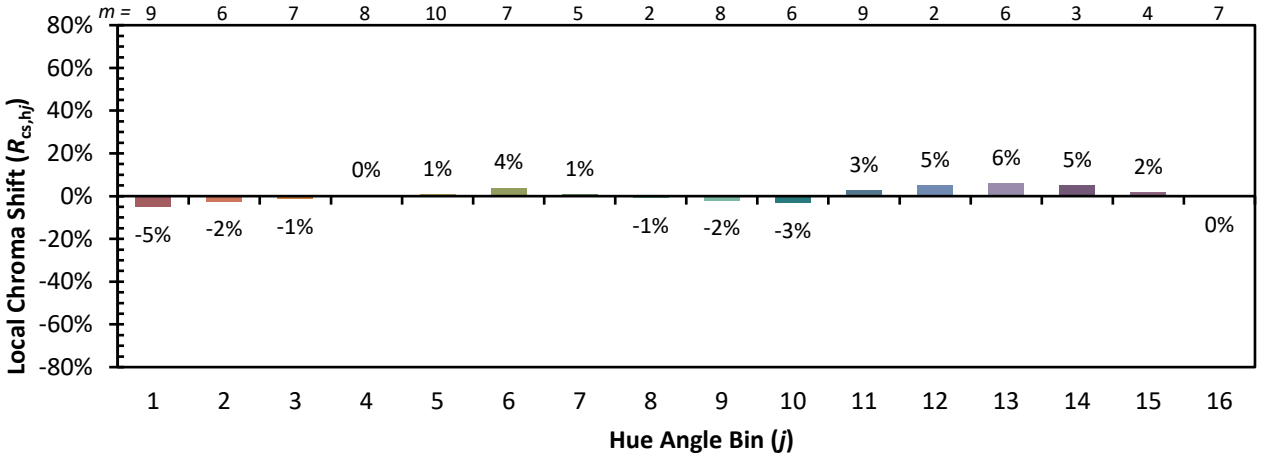
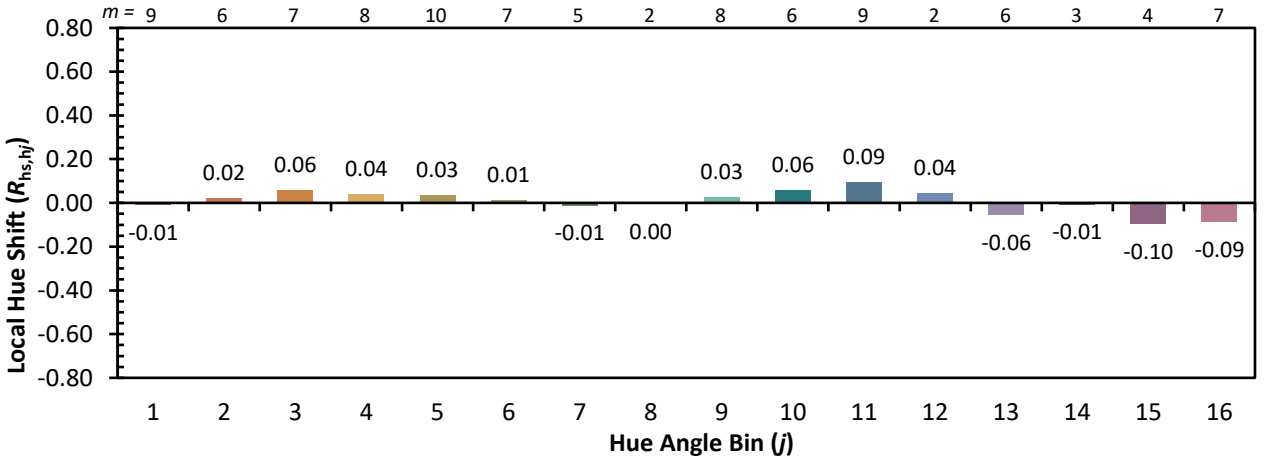
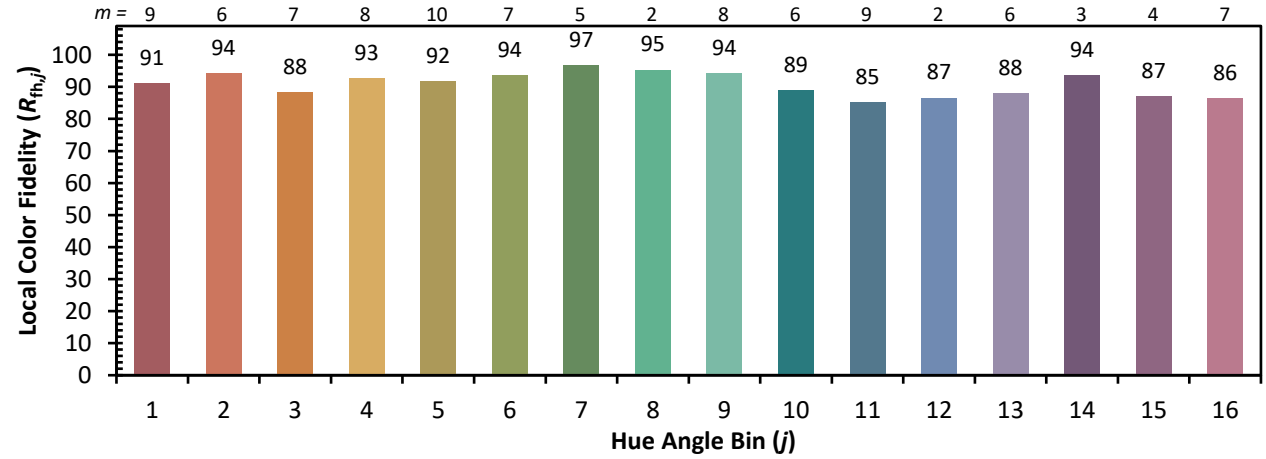
Color Rendition by Hue-Angle Bin







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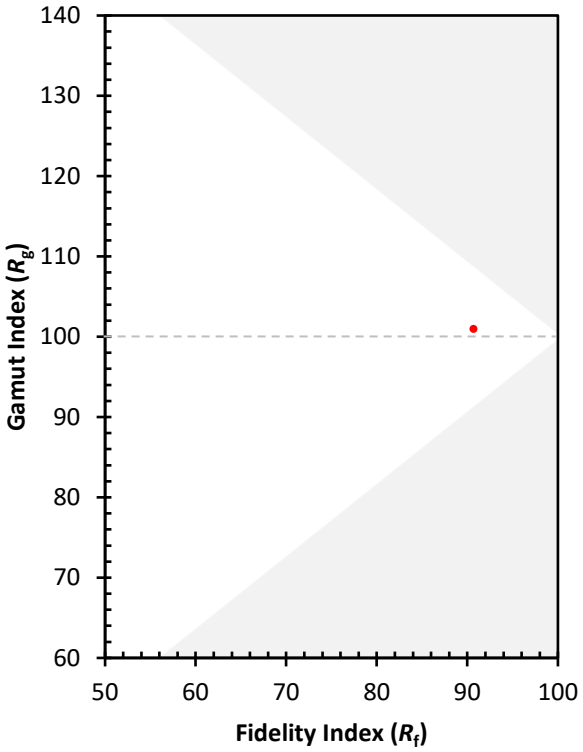
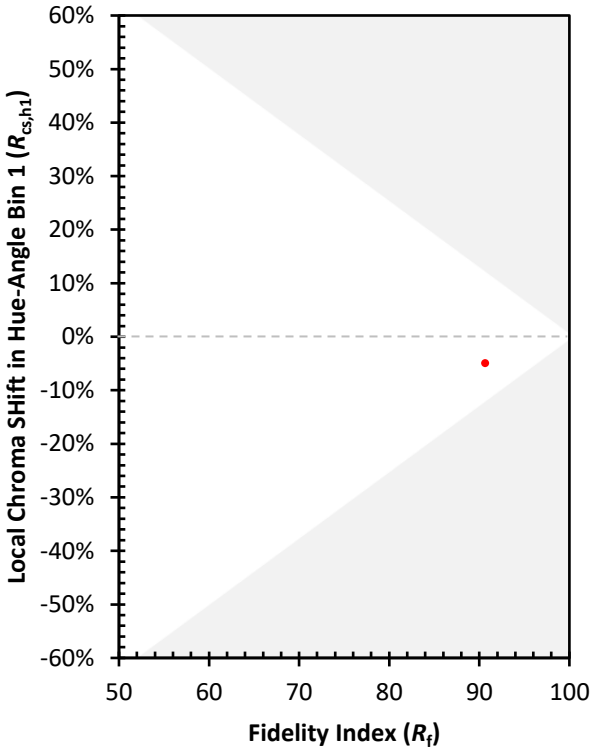
Measure Comparisons





(END OF REPORT)