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: P1433834

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

Issue Date: 3/13/2026

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:	P1433834
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-5)
Test Lab:	INNOVATION CENTER
Issue Date:	3/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-A1-L940
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:	33542.0 lumens
Efficiency:	N/A
Efficacy:	175.2 lumens/watt
Spacing Criteria (0/90/45):	0.8 / 1.07 / 0.95
Luminous Opening:	Circular (Dia: 1.71' x H: 0')
CIE Type:	Direct

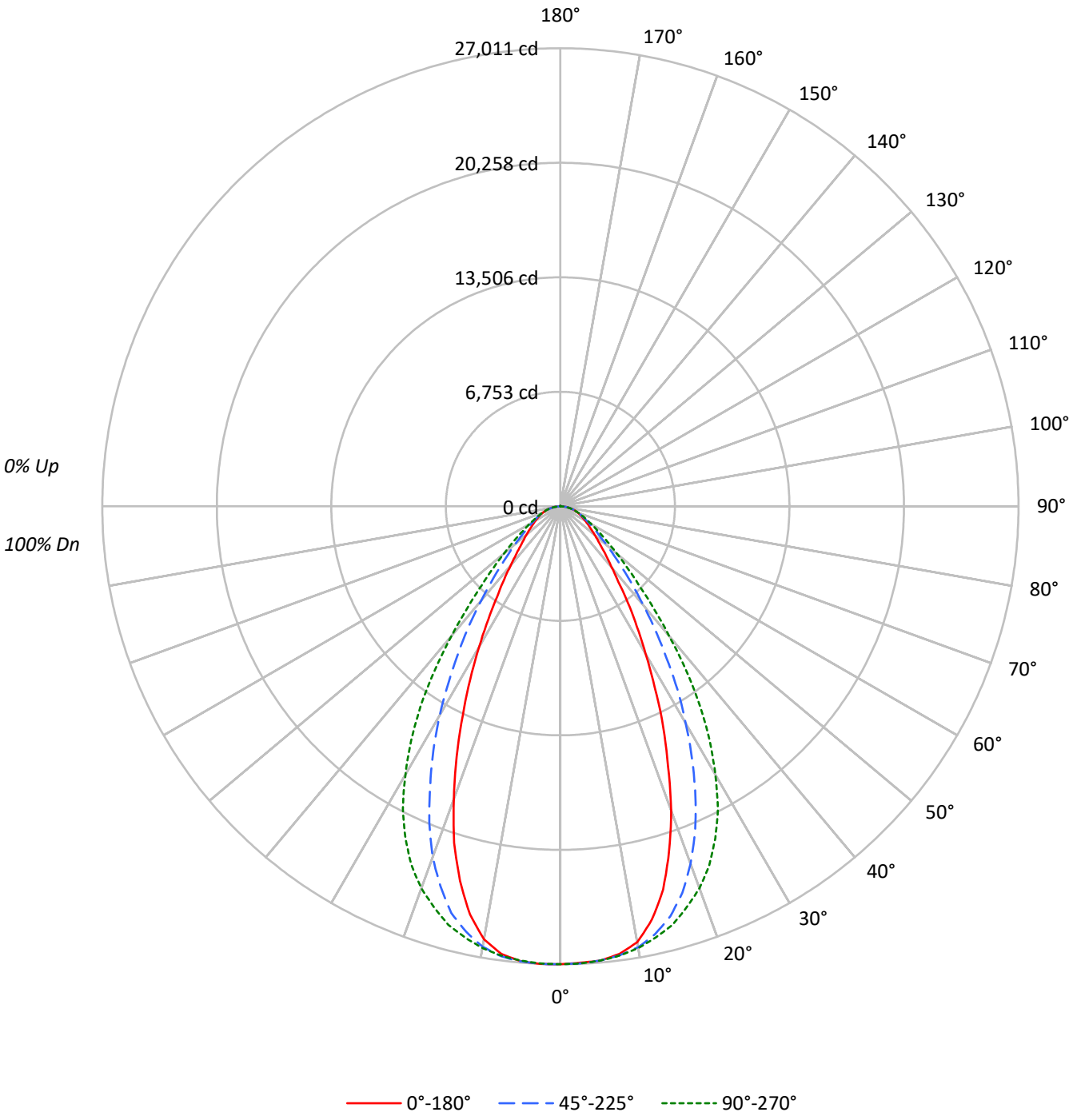
Input Watts (W):	191.4
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

TEST NUMBER: P1433834
CATALOG NUMBER: EHBR1-36-UNV-A1-L940

Luminous Intensity Polar Plot



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

Scaled Data Report

TEST NUMBER: P1433834
CATALOG NUMBER: EHBR1-36-UNV-A1-L940

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	98	90	83	78	95	88	82	78	85	81	77	83	79	75	80	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	126793	126793	126793	126793	126793
5°	126776	126757	126763	126987	126909
10°	124456	125906	126106	125750	123641
15°	113747	121684	124189	120708	111135
20°	95452	112106	119765	109996	91736
25°	74367	97653	111929	94087	70514
30°	54641	80163	99107	77121	51863
35°	39733	62329	82166	59645	37139
40°	28867	46488	61149	44526	27976
45°	23003	34394	43190	32903	22207
50°	19339	26185	31676	25321	19046
55°	17163	21010	24377	20659	16932
60°	15796	17899	19822	17787	15907
65°	15176	16218	17110	16269	15319
70°	14970	15327	15801	15412	15117
75°	14817	14724	14817	14766	14960
80°	14896	13825	13519	14038	14896
85°	13438	11396	11272	11579	13837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 45252 cd/sqm

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

Scaled Data Report

TEST NUMBER: P1433834
CATALOG NUMBER: EHBR1-36-UNV-A1-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2549.7	7.6
10°-20°	6852.7	20.4
20°-30°	8332.8	24.8
30°-40°	6787.7	20.2
40°-50°	4075.3	12.1
50°-60°	2345.4	7.0
60°-70°	1467.8	4.4
70°-80°	864.5	2.6
80°-90°	252.8	0.8
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.2	0.0
120°-130°	0.4	0.0
130°-140°	1.7	0.0
140°-150°	3.1	0.0
150°-160°	3.4	0.0
160°-170°	3.1	0.0
170°-180°	1.3	0.0
0°-30°	17735.2	52.9
0°-40°	24522.8	73.1
0°-60°	30943.5	92.3
0°-90°	33528.6	100.0
90°-120°	0.4	0.0
90°-150°	5.6	0.0
90°-180°	13.0	0.0
0°-180°	33542.0	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°	1	0	0	0	1	13
95°	1	0	0	0	1	1
105°	1	0	0	0	1	1
115°	1	0	0	0	1	1
125°	2	0	0	1	2	1
135°	3	2	2	2	3	2
145°	5	5	5	5	6	3
155°	8	7	6	7	9	4
165°	13	11	10	11	13	4
175°	17	15	12	15	17	2
180°	15	15	15	15	15	

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

Scaled Data Report

TEST NUMBER: P1433834
CATALOG NUMBER: EHBR1-36-UNV-A1-L940

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°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.6
92.5°	0.6	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.6
95°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.6
97.5°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.6
100°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1
102.5°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1
105°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1
107.5°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1
110°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1

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

Scaled Data Report

TEST NUMBER: P1433834
CATALOG NUMBER: EHBR1-36-UNV-A1-L940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1
115°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1
117.5°	1.7	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1
120°	1.1	0.0	0.0	0.0	0.0	0.0	*0.0*	0.6	1.1
122.5°	1.7	0.6	0.0	0.0	0.0	0.0	*0.0*	0.6	1.7
125°	1.7	0.6	0.0	0.0	0.0	0.0	*0.6*	0.6	1.7
127.5°	1.7	0.6	0.0	0.0	0.0	0.0	*0.6*	1.1	1.7
130°	1.7	1.1	0.6	0.0	0.6	0.6	*1.1*	1.1	1.7
132.5°	2.2	1.7	1.7	1.1	1.1	1.7	*1.7*	2.2	2.2
135°	2.8	2.2	2.2	1.7	2.2	2.2	*2.2*	2.2	2.8
137.5°	2.8	2.8	2.8	2.8	2.8	2.8	*2.8*	2.8	3.4
140°	3.9	3.4	3.4	3.4	3.4	3.4	*3.4*	3.9	3.9
142.5°	4.6	4.6	3.9	3.9	3.9	4.6	*4.6*	4.6	5.1
145°	5.1	5.1	4.6	4.6	4.6	5.1	*5.1*	5.7	5.7
147.5°	6.8	6.2	5.1	5.1	5.1	5.1	*5.7*	6.2	6.8
150°	7.4	6.8	5.7	5.7	5.7	5.7	*6.2*	7.4	7.9
152.5°	7.9	7.4	6.2	5.7	5.7	5.7	*6.8*	7.4	8.5
155°	8.5	7.9	6.8	5.7	5.7	6.2	*7.4*	8.5	9.0
157.5°	10.2	9.0	7.9	6.8	6.8	7.4	*8.5*	9.6	10.2
160°	11.3	10.2	9.0	7.9	7.9	8.5	*9.6*	10.7	11.3
162.5°	12.5	11.3	9.6	9.0	8.5	9.0	*10.2*	11.8	12.5
165°	13.0	11.8	10.7	9.6	9.6	9.6	*11.3*	12.5	13.0
167.5°	13.6	13.0	11.3	10.2	10.2	10.2	*11.8*	13.0	13.6
170°	14.2	13.6	11.8	10.7	10.2	10.7	*12.5*	13.6	14.2
172.5°	15.3	14.7	13.0	11.8	11.3	11.8	*13.6*	14.7	15.3
175°	17.0	15.8	14.7	13.0	12.5	13.0	*14.7*	15.8	17.0
177.5°	17.5	16.4	15.3	13.6	13.0	13.6	*15.3*	16.4	17.5
180°	15.3	15.3	15.3	15.3	15.3	15.3	*15.3*	15.3	15.3

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

Scaled Data Report

TEST NUMBER: P1433834
CATALOG NUMBER: EHBR1-36-UNV-A1-L940

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	19.21	20.48	19.58	20.79	21.11	20.19	21.46	20.56	21.77	22.09
	3H	20.78	21.90	21.16	22.23	22.60	21.53	22.66	21.91	22.99	23.36
	4H	21.45	22.49	21.85	22.85	23.23	22.09	23.14	22.50	23.49	23.88
	6H	22.00	22.96	22.42	23.34	23.73	22.52	23.49	22.94	23.86	24.26
	8H	22.20	23.11	22.63	23.51	23.91	22.66	23.57	23.09	23.97	24.37
	12H	22.33	23.20	22.76	23.58	24.02	22.74	23.61	23.17	24.00	24.43
4H	2H	19.78	20.83	20.19	21.18	21.57	20.55	21.60	20.96	21.95	22.34
	3H	21.57	22.44	21.99	22.84	23.25	22.14	23.01	22.56	23.41	23.82
	4H	22.37	23.14	22.80	23.56	24.01	22.84	23.61	23.27	24.03	24.48
	6H	23.05	23.72	23.52	24.17	24.64	23.41	24.08	23.87	24.53	24.99
	8H	23.30	23.92	23.77	24.37	24.84	23.59	24.22	24.06	24.67	25.14
	12H	23.47	24.02	23.96	24.50	24.98	23.71	24.26	24.20	24.75	25.22
8H	4H	22.65	23.27	23.12	23.72	24.19	23.07	23.69	23.54	24.14	24.61
	6H	23.47	23.97	23.97	24.47	24.96	23.77	24.28	24.28	24.78	25.26
	8H	23.80	24.25	24.32	24.77	25.26	24.03	24.49	24.56	25.00	25.50
	12H	24.05	24.45	24.56	24.94	25.52	24.23	24.63	24.74	25.12	25.69
12H	4H	22.66	23.21	23.15	23.70	24.17	23.08	23.63	23.57	24.12	24.59
	6H	23.51	23.97	24.04	24.49	24.98	23.82	24.27	24.34	24.79	25.28
	8H	23.90	24.30	24.42	24.80	25.37	24.13	24.53	24.65	25.03	25.60

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: SP1-2506-472-7

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

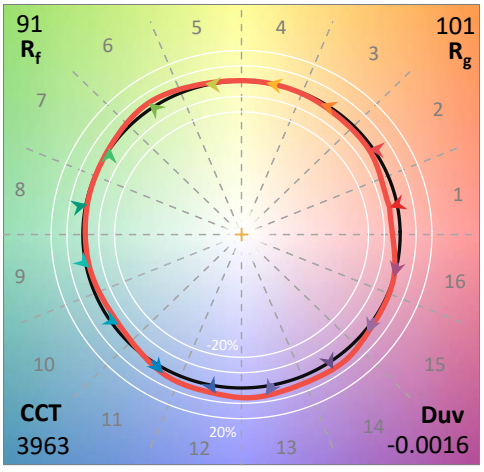
Test Information

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

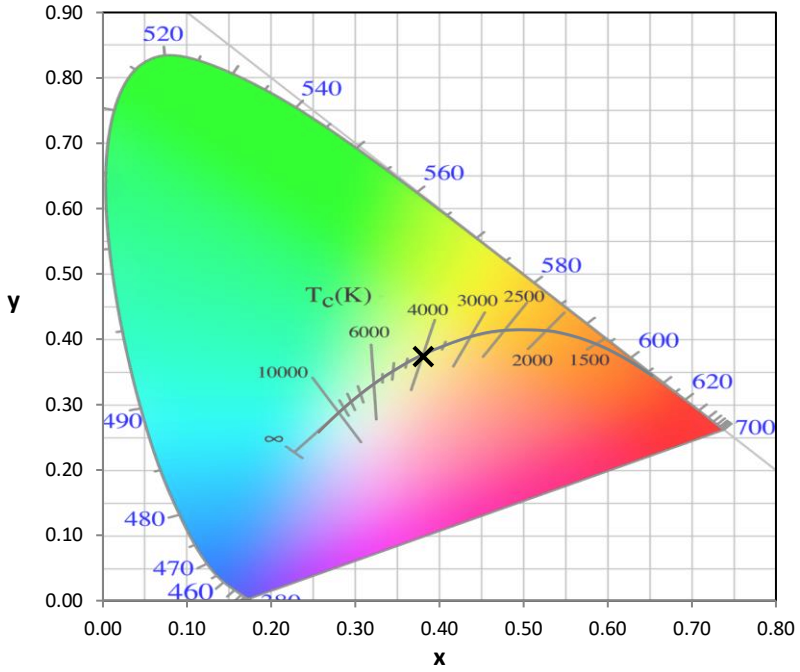
Stabilization Time:	44M
Operation Time:	1H 44M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-7

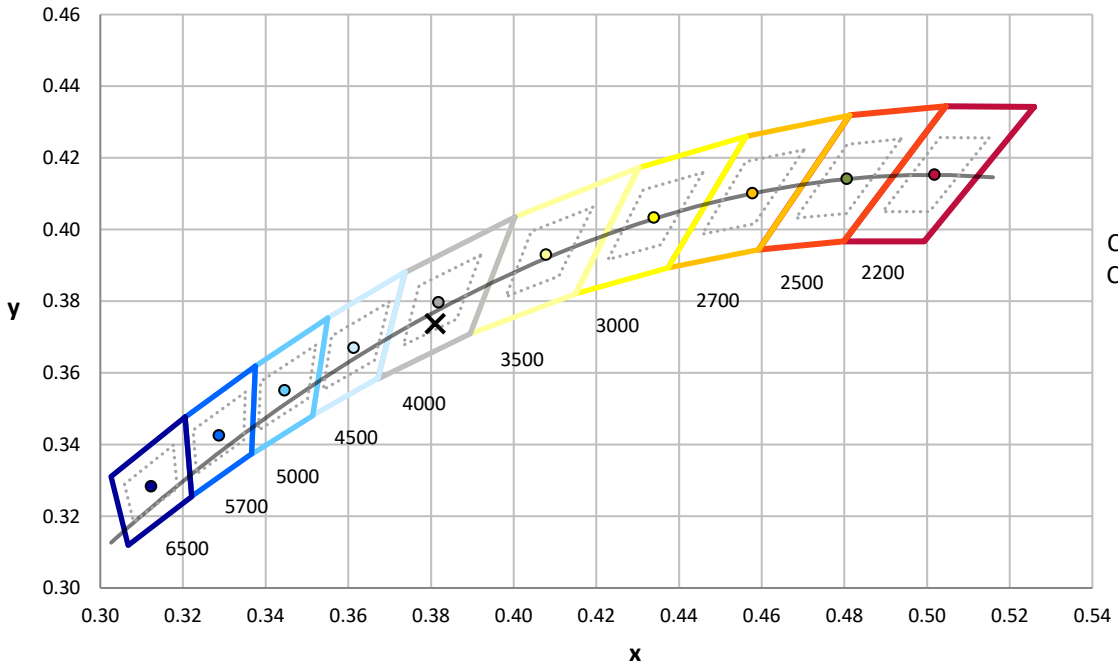
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2506-472-7

CIE 1931 Chromaticity Diagram



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

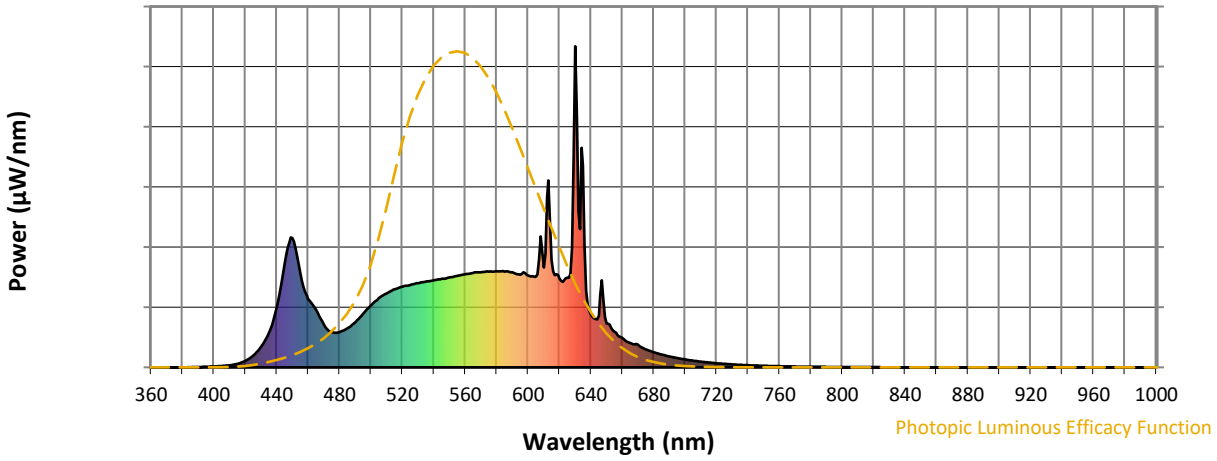


CCT = 3963K
CIE x = 0.3810
CIE y = 0.3738
Duv = -0.0016

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-7

Photopic Flux vs. Wavelength

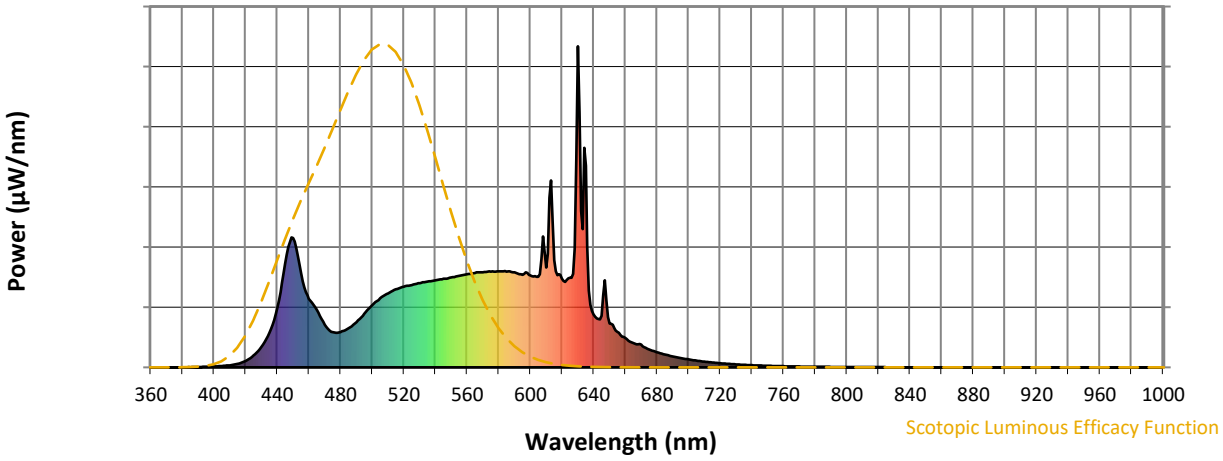


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2506-472-7

Scotopic Flux vs. Wavelength

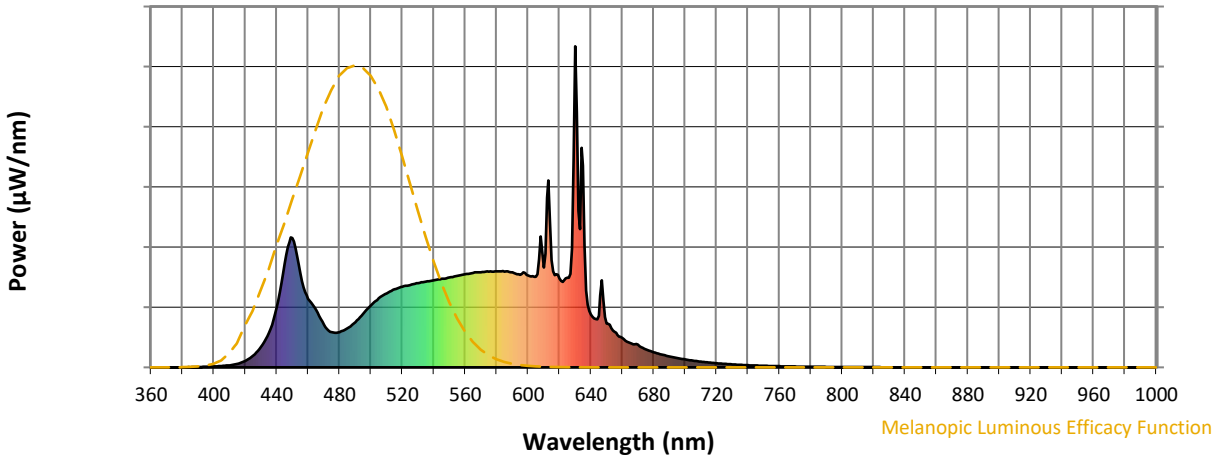


Scotopic Lumens: NR **S/P: 1.76**

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			

REPORT NUMBER: SP1-2506-472-7

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			

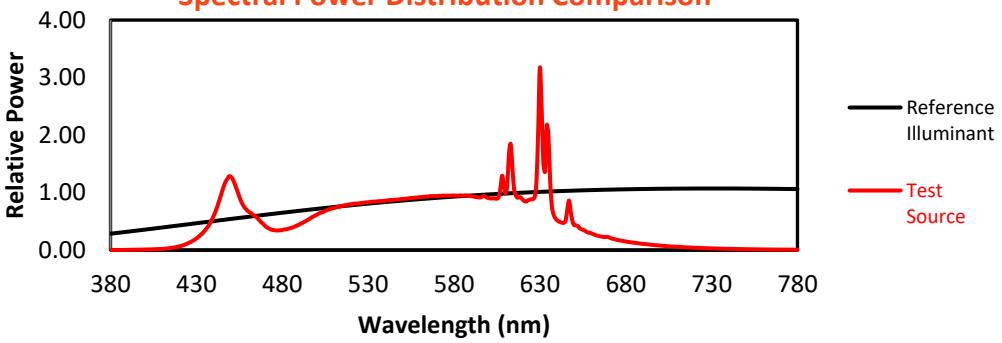
REPORT NUMBER: SP1-2506-472-7

TM-30-18

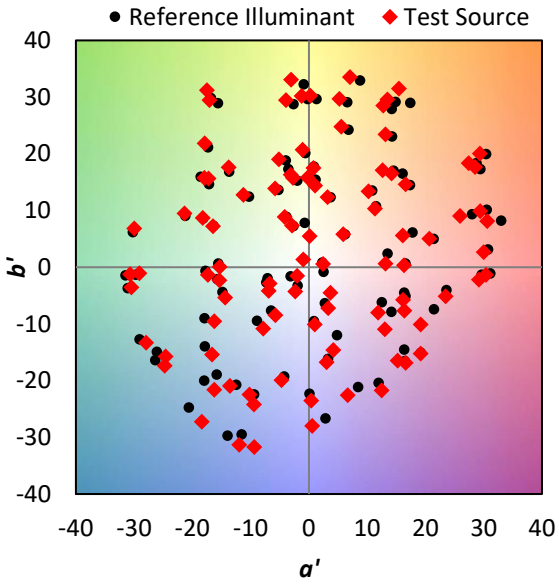
Summary

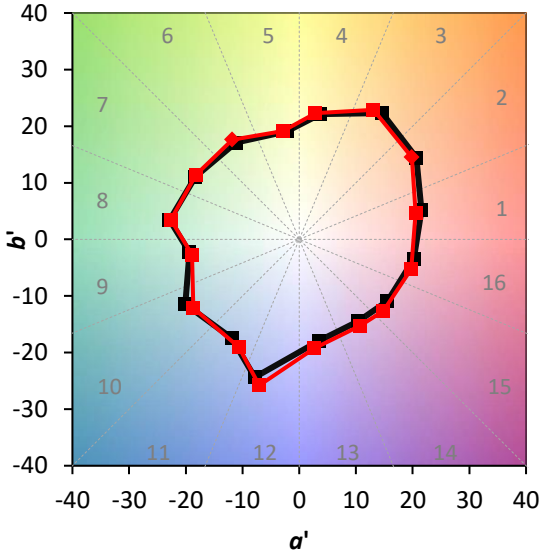
R_f = 90.7
R_g = 101
CIE R_a = 93.4
R_9 = 66.4

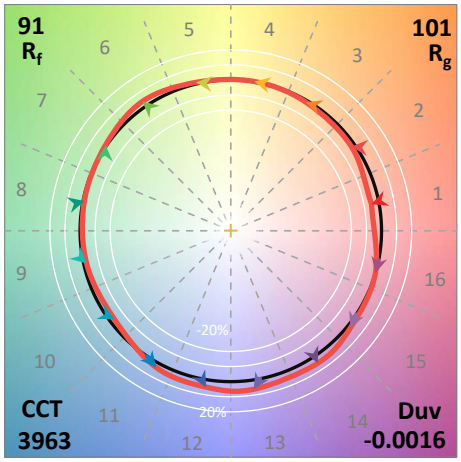
Spectral Power Distribution Comparison

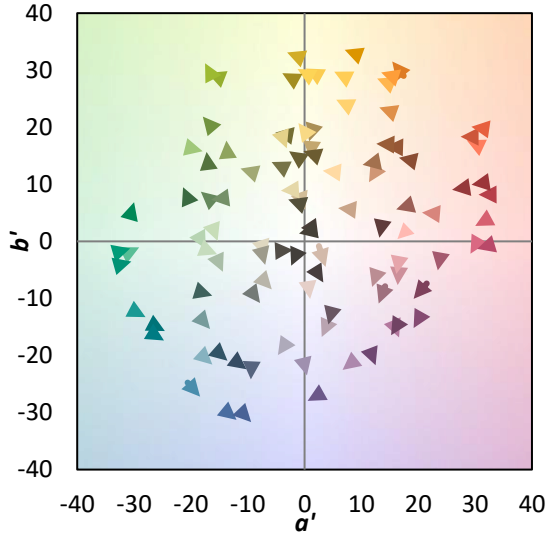


Color Vector Graphics







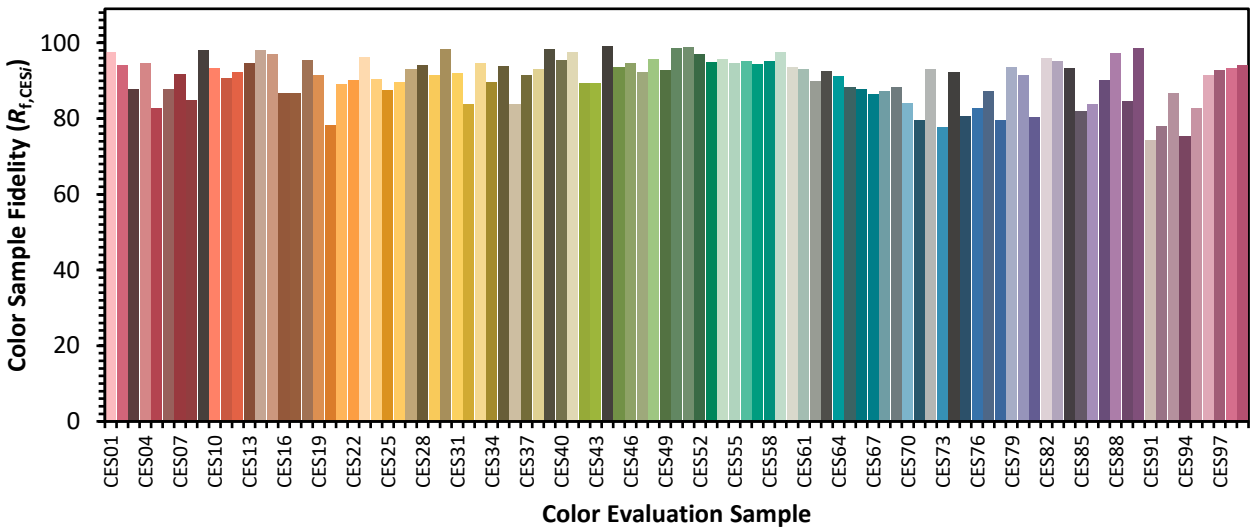


REPORT NUMBER: SP1-2506-472-7

TM-30-18

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

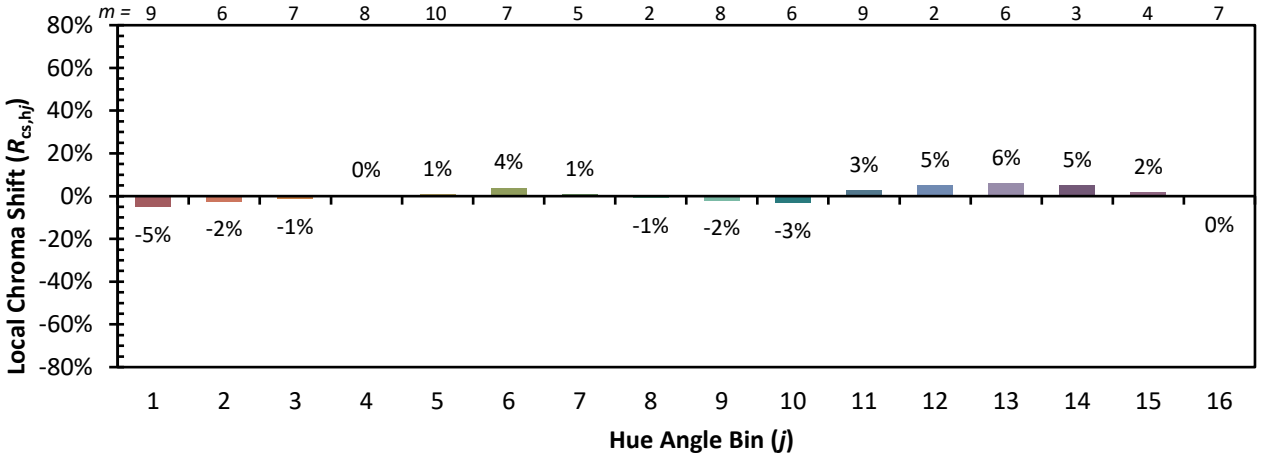
CES01 = 86	CES26 = 90	CES51 = 99	CES76 = 83
CES02 = 62	CES27 = 93	CES52 = 97	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 95	CES78 = 79
CES04 = 69	CES29 = 91	CES54 = 96	CES79 = 94
CES05 = 49	CES30 = 98	CES55 = 95	CES80 = 91
CES06 = 50	CES31 = 92	CES56 = 95	CES81 = 80
CES07 = 42	CES32 = 84	CES57 = 94	CES82 = 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	

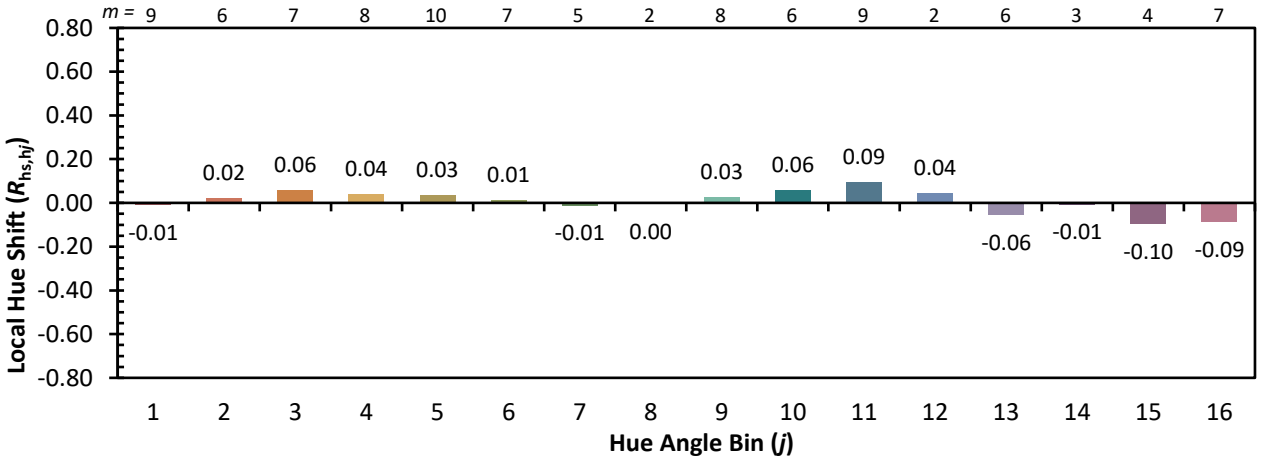


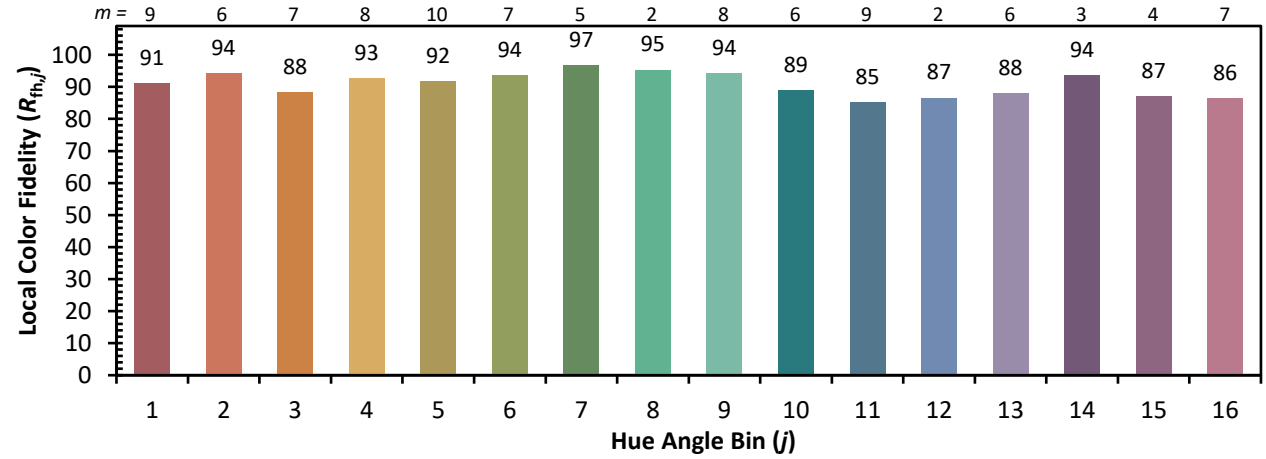
REPORT NUMBER: SP1-2506-472-7

TM-30-18

Color Rendition by Hue-Angle Bin



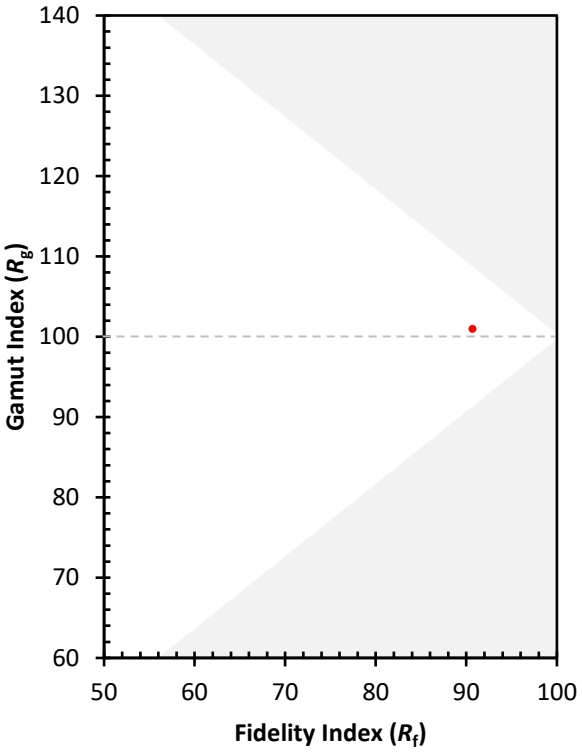


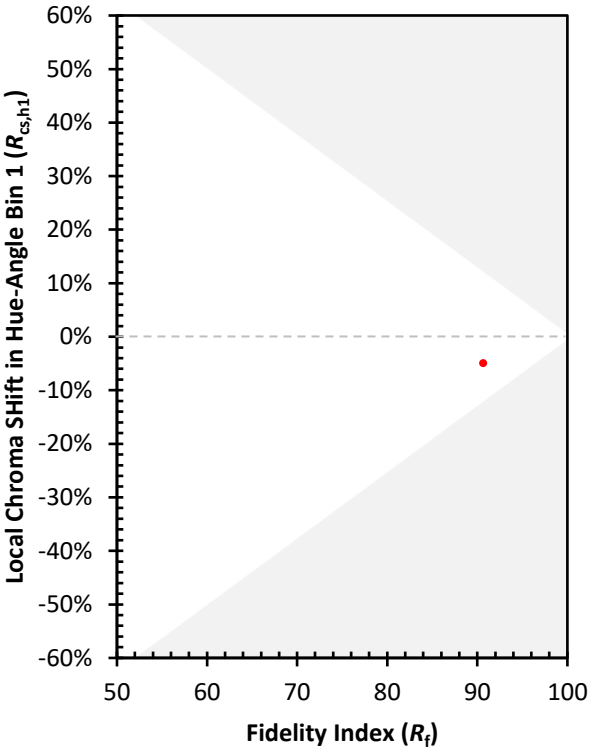


REPORT NUMBER: SP1-2506-472-7

TM-30-18

Measure Comparisons





(END OF REPORT)