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: P1433490

Luminaire Tested: EHBR1-24-UNV-ASM-L935

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:	P1433490
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab:	INNOVATION CENTER
Issue Date:	3/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-24-UNV-ASM-L935
Description:	Elevate Round Highbay at, 24000 lumens, 3500K 90CRI LEDs with ASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22454.3 lumens
Efficiency:	N/A
Efficacy:	175.0 lumens/watt
Spacing Criteria (0/90/45):	0.84 / 0.99 / 0.92
Luminous Opening:	Circular (Dia: 1.71' x H: 0')
CIE Type:	Direct

Input Watts (W):	128.3
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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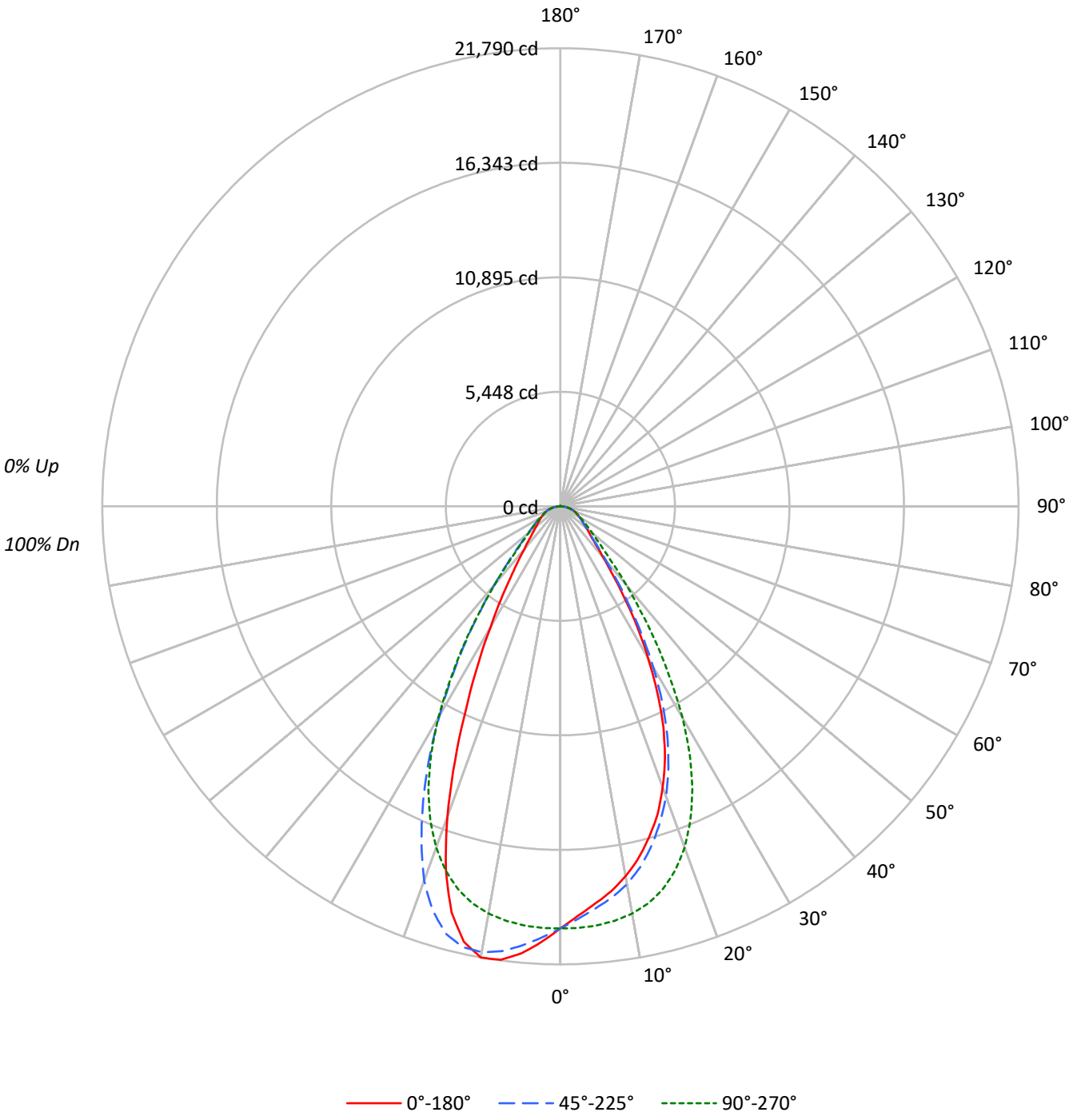
Scaled Data Report

TEST NUMBER: P1433490
CATALOG NUMBER: EHBR1-24-UNV-ASM-L935

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	94305	94305	94305	94305	94305
5°	89447	90492	94342	98867	100646
10°	85210	87015	93796	102713	103908
15°	79242	81359	91640	102344	97215
20°	71078	73471	86307	94734	78500
25°	60009	62280	76956	80051	54793
30°	45257	47881	62985	62356	35932
35°	30393	32228	45572	44836	23474
40°	19356	20686	29753	29945	16339
45°	13947	14527	19092	19911	12799
50°	11772	11865	14366	14740	11021
55°	10559	10584	11918	12234	10201
60°	9977	9892	10532	10755	9917
65°	9783	9695	9863	10055	9824
70°	9869	9699	9710	9896	9999
75°	9956	9655	9633	9976	10261
80°	10082	9381	9419	10082	10785
85°	9559	7937	7937	9068	10022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
Vertical Angle: 45°
Luminance: 26841 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1909.5	8.5
10°-20°	5194.8	23.1
20°-30°	6092.4	27.1
30°-40°	4236.9	18.9
40°-50°	2105.5	9.4
50°-60°	1259.3	5.6
60°-70°	886.4	3.9
70°-80°	571.0	2.5
80°-90°	181.4	0.8
90°-100°	1.0	0.0
100°-110°	1.2	0.0
110°-120°	1.3	0.0
120°-130°	1.6	0.0
130°-140°	2.2	0.0
140°-150°	2.7	0.0
150°-160°	3.0	0.0
160°-170°	2.9	0.0
170°-180°	1.2	0.0
0°-30°	13196.7	58.8
0°-40°	17433.6	77.6
0°-60°	20798.5	92.6
0°-90°	22437.2	99.9
90°-120°	3.5	0.0
90°-150°	10.0	0.0
90°-180°	17.0	0.1
0°-180°	22454.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20082	20082	20082	20082	20082	
5°	18975	19196	20013	20973	21350	1780
15°	16299	16734	18849	21051	19996	4545
25°	11581	12020	14852	15449	10575	5225
35°	5302	5622	7949	7821	4095	3377
45°	2100	2187	2875	2998	1927	1698
55°	1290	1293	1456	1494	1246	1170
65°	880	872	888	905	884	874
75°	549	532	531	550	566	579
85°	177	147	147	168	186	183
90°	0	0	0	1	3	9
95°	0	0	1	1	3	0
105°	1	0	1	2	3	1
115°	1	1	1	2	3	1
125°	1	2	2	2	4	1
135°	2	3	3	3	4	1
145°	4	4	4	4	5	3
155°	7	6	6	6	7	3
165°	10	10	10	11	12	3
175°	13	13	13	14	16	1
180°	14	14	14	14	14	

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TEST NUMBER: P1433490
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	20081.6	20081.6	20081.6	20081.6	20081.6	20081.6	20081.6	20081.6	20081.6
2.5°	19485.6	19498.3	19634.6	19812.0	20070.0	20329.4	20539.5	20678.1	20746.6
5°	18974.6	19045.3	19196.3	19522.1	20013.1	20532.7	20972.9	21261.1	21350.2
7.5°	18476.7	18517.8	18770.5	19182.0	19877.2	20686.8	21340.8	21677.1	21759.2
10°	17869.3	17962.4	18247.8	18733.2	19669.7	20784.0	21539.7	21780.7	21790.4
12.5°	17154.7	17277.7	17572.7	18184.9	19338.6	20749.2	21473.0	21393.9	21214.3
15°	16299.1	16407.1	16734.4	17444.6	18849.1	20544.1	21050.9	20407.4	19995.8
17.5°	15375.0	15472.9	15757.2	16539.3	18159.3	20160.0	20169.7	18896.6	18120.2
20°	14222.7	14299.5	14701.7	15469.1	17270.2	19543.9	18956.4	16627.8	15707.9
22.5°	12996.6	13068.6	13425.9	14224.6	16155.6	18713.2	17266.9	14345.5	13090.4
25°	11581.2	11620.3	12019.5	12741.7	14851.9	17695.4	15449.2	11858.7	10574.6
27.5°	9988.7	10055.3	10472.9	11210.6	13318.6	16405.3	13513.7	9690.4	8505.7
30°	8346.1	8456.4	8830.0	9490.5	11615.4	14751.4	11499.4	7717.2	6626.4
32.5°	6813.2	6892.5	7158.8	7849.0	9708.5	13130.3	9565.0	6183.5	5259.4
35°	5301.6	5381.1	5621.7	6299.5	7949.2	11102.2	7820.8	4858.7	4094.7
37.5°	4052.6	4193.0	4347.4	4897.5	6238.5	9185.8	6234.4	3912.4	3321.2
40°	3157.5	3180.0	3374.4	3726.5	4853.5	7182.5	4884.8	3123.2	2665.3
42.5°	2527.5	2588.8	2672.5	2936.1	3677.5	5492.2	3839.4	2563.3	2263.9
45°	2100.1	2124.2	2187.4	2364.4	2874.7	4041.6	2998.1	2162.6	1927.2
47.5°	1837.2	1826.7	1867.4	1999.9	2341.1	3123.6	2430.0	1855.0	1690.0
50°	1611.3	1604.9	1624.1	1712.6	1966.4	2396.8	2017.6	1619.2	1508.5
52.5°	1435.8	1441.5	1443.3	1498.3	1689.2	1954.8	1718.2	1443.0	1368.5
55°	1289.7	1296.9	1292.7	1333.4	1455.7	1643.4	1494.2	1297.6	1246.0
57.5°	1175.6	1170.3	1164.7	1186.6	1278.5	1394.0	1297.6	1173.7	1139.4
60°	1062.3	1057.4	1053.2	1067.6	1121.4	1207.2	1145.1	1065.7	1055.9
62.5°	965.2	962.1	961.7	959.1	1000.5	1054.8	1012.6	968.5	959.9
65°	880.4	877.1	872.5	868.4	887.6	938.1	904.9	881.1	884.1
67.5°	795.7	795.7	787.8	781.3	800.2	826.6	812.3	798.7	802.1
70°	718.8	719.3	706.4	701.5	707.2	735.4	720.7	722.6	728.2
72.5°	636.4	627.4	617.9	617.6	618.3	640.1	635.2	639.8	645.8
75°	548.7	538.1	532.1	525.3	530.9	547.5	549.8	556.2	565.5
77.5°	464.0	447.7	442.8	439.5	435.7	454.5	461.7	470.3	484.3
80°	372.8	355.1	346.9	342.0	348.3	357.0	372.8	379.2	398.8
82.5°	275.6	262.5	252.3	252.0	255.0	262.8	276.4	288.5	299.7
85°	177.4	156.3	147.3	150.6	147.3	159.2	168.3	182.6	186.0
87.5°	64.0	50.1	47.9	52.7	51.6	55.4	63.3	68.9	69.2
90°	0.4	0.4	0.4	0.4	0.4	0.7	1.1	2.3	3.0
92.5°	0.4	0.4	0.4	0.4	0.4	0.7	1.1	2.3	3.0
95°	0.4	0.4	0.4	0.4	0.7	0.7	1.1	2.3	3.0
97.5°	0.7	0.4	0.4	0.4	0.7	0.7	1.1	2.3	3.0
100°	0.7	0.4	0.4	0.7	0.7	0.7	1.1	2.3	3.0
102.5°	0.7	0.4	0.4	0.7	0.7	1.1	1.5	2.6	3.0
105°	0.7	0.4	0.4	0.7	0.7	1.1	1.5	2.6	3.4
107.5°	0.7	0.4	0.7	0.7	0.7	1.1	1.5	2.6	3.4
110°	0.7	0.4	0.7	0.7	0.7	1.1	1.5	2.6	3.4

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CATALOG NUMBER: EHBR1-24-UNV-ASM-L935

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.7	0.4	0.7	0.7	0.7	1.1	1.5	2.6	*3.4*
115°	0.7	0.4	0.7	0.7	1.1	1.1	1.5	2.6	*3.4*
117.5°	0.7	0.4	0.7	1.1	1.1	1.1	1.5	2.6	*3.4*
120°	0.7	0.4	0.7	1.1	1.1	1.1	1.9	2.6	*3.4*
122.5°	0.7	0.7	1.1	1.5	1.5	1.5	1.9	3.0	*3.4*
125°	1.1	0.7	1.5	1.9	1.5	1.5	2.3	3.0	*3.8*
127.5°	1.1	0.7	1.5	1.9	1.9	1.9	2.3	3.0	*3.8*
130°	1.1	1.1	1.9	2.3	2.3	1.9	2.3	3.4	*3.8*
132.5°	1.5	1.5	2.6	3.0	2.6	2.3	2.6	3.8	*4.2*
135°	1.5	1.9	2.6	3.4	3.0	2.3	3.0	3.4	*4.2*
137.5°	1.9	2.3	3.4	3.8	3.4	2.6	3.0	3.8	*4.2*
140°	2.6	3.0	3.8	3.8	3.8	3.0	3.0	3.8	*4.5*
142.5°	3.4	3.4	4.2	4.2	4.2	3.4	3.4	4.2	*4.5*
145°	4.2	4.2	4.5	4.2	4.5	4.2	3.8	4.2	*4.9*
147.5°	4.9	4.9	4.9	4.5	4.5	4.2	4.2	4.5	*5.3*
150°	5.6	5.6	5.3	4.9	4.9	4.9	4.5	4.9	*5.6*
152.5°	6.4	6.0	5.6	5.3	5.3	5.3	5.3	5.6	*6.0*
155°	7.2	6.8	6.4	5.6	6.0	6.0	6.0	6.4	*6.8*
157.5°	8.2	7.5	7.2	6.8	6.8	7.2	7.2	7.5	*7.9*
160°	9.1	8.7	8.2	7.9	8.2	8.2	8.7	9.1	*9.4*
162.5°	9.8	9.4	9.1	9.1	9.1	9.1	9.8	10.2	*10.9*
165°	10.5	10.2	9.8	9.8	10.2	10.2	10.9	11.7	*12.4*
167.5°	10.5	10.5	10.5	10.5	10.9	10.9	11.7	12.8	*13.6*
170°	11.3	10.9	10.9	11.3	11.3	11.7	12.4	13.6	*14.3*
172.5°	12.1	11.7	12.1	12.1	12.4	12.4	13.6	14.7	*15.4*
175°	12.8	12.4	12.8	12.8	13.1	13.6	14.3	15.4	*16.2*
177.5°	13.1	12.8	12.8	12.8	13.1	14.0	14.7	15.9	*16.6*
180°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	*14.0*

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Scaled Data Report

TEST NUMBER: P1433490
CATALOG NUMBER: EHBR1-24-UNV-ASM-L935

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	16.77	17.97	17.13	18.29	18.61	17.53	18.74	17.90	19.05	19.37
	3H	18.68	19.76	19.07	20.09	20.46	19.18	20.26	19.57	20.59	20.96
	4H	19.50	20.50	19.90	20.85	21.24	19.90	20.90	20.31	21.26	21.64
	6H	20.16	21.08	20.58	21.46	21.85	20.49	21.41	20.91	21.78	22.18
	8H	20.41	21.27	20.84	21.67	22.08	20.70	21.57	21.13	21.96	22.37
	12H	20.56	21.40	21.00	21.78	22.21	20.83	21.66	21.27	22.05	22.48
4H	2H	17.34	18.34	17.74	18.69	19.08	17.96	18.96	18.36	19.31	19.70
	3H	19.49	20.32	19.91	20.73	21.13	19.88	20.70	20.29	21.11	21.52
	4H	20.44	21.18	20.88	21.61	22.05	20.75	21.49	21.19	21.91	22.36
	6H	21.25	21.89	21.72	22.34	22.81	21.49	22.13	21.96	22.58	23.05
	8H	21.55	22.14	22.02	22.59	23.07	21.76	22.36	22.24	22.81	23.28
	12H	21.76	22.28	22.24	22.76	23.24	21.95	22.47	22.44	22.96	23.43
8H	4H	20.76	21.36	21.24	21.81	22.28	21.05	21.65	21.52	22.10	22.57
	6H	21.72	22.20	22.23	22.70	23.19	21.95	22.44	22.46	22.94	23.42
	8H	22.10	22.54	22.63	23.06	23.55	22.32	22.75	22.84	23.27	23.76
	12H	22.40	22.78	22.92	23.28	23.85	22.59	22.97	23.11	23.47	24.04
12H	4H	20.79	21.31	21.28	21.80	22.28	21.08	21.60	21.57	22.09	22.57
	6H	21.78	22.22	22.31	22.73	23.23	22.02	22.46	22.55	22.97	23.47
	8H	22.23	22.61	22.75	23.11	23.68	22.45	22.83	22.97	23.33	23.91

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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: SP1-2506-472-6

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L935-N

Data in this report applies to families of products including EHBR-60-L935-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

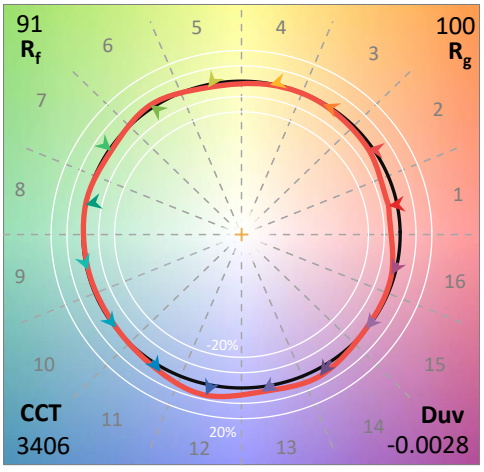
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-6
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-L935-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	3406	CRI (Ra):	94.6		
CIE u':	0.2394	R1:	96.6	R9:	63.8
CIE v':	0.5094	R2:	98.4	R10:	94.7
Duv:	-0.0028	R3:	98.1	R11:	96.6
CIE x:	0.4076	R4:	95.8	R12:	80.9
CIE y:	0.3856	R5:	96.2	R13:	97.4
CIE z:	0.2068	R6:	95.4	R14:	98.3
Peak Wavelength (nm):	630	R7:	91.8	R15:	93.1
Dominant Wavelength (nm):	582	R8:	84.4		
Purity:	38.0517				

Rf:	91.3
Rg:	100



Test Conditions

Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

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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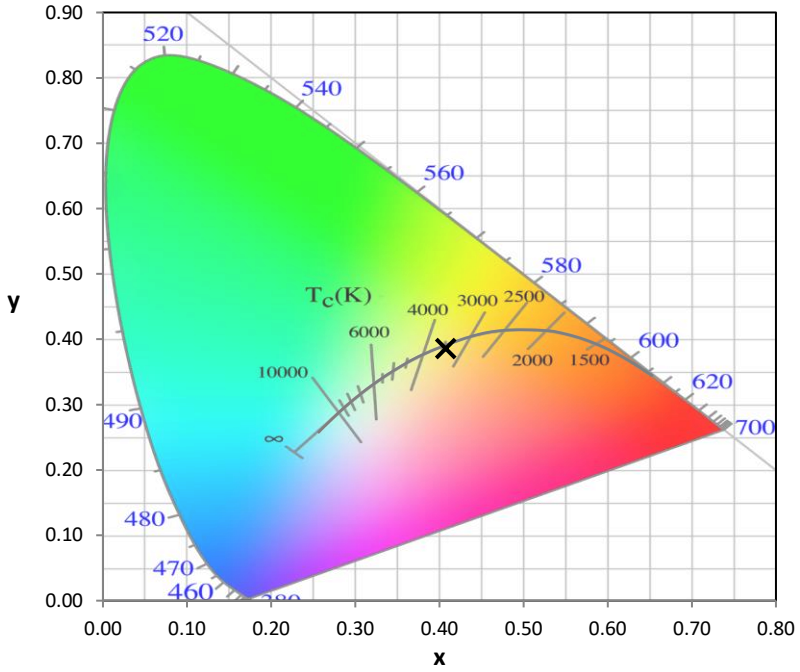
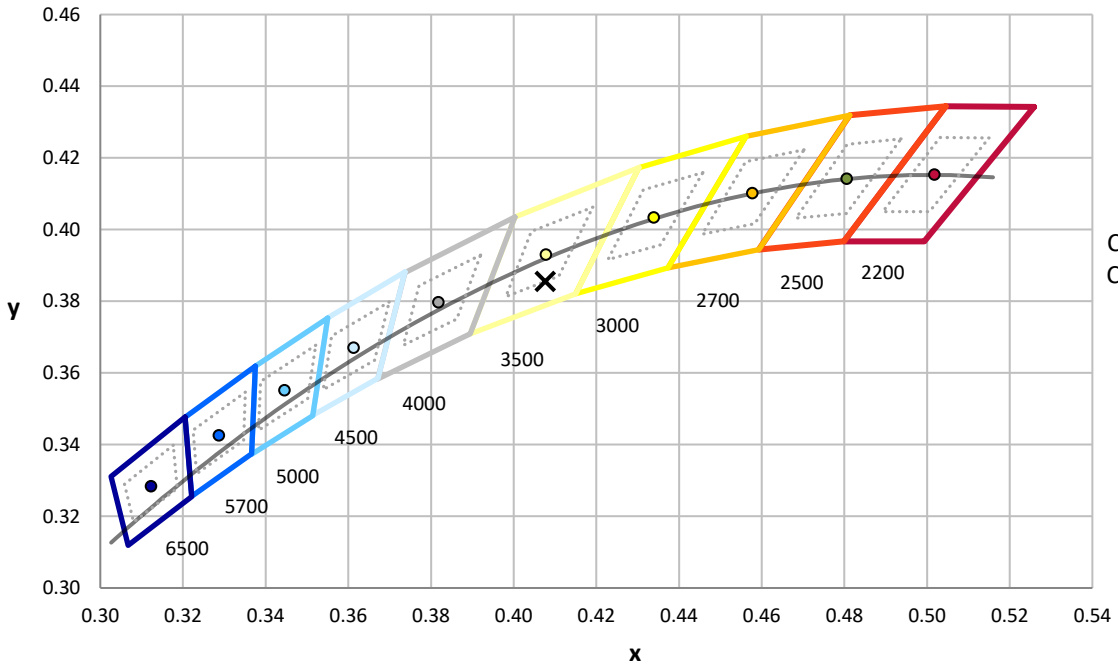
CIE 1931 Chromaticity Diagram



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



CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

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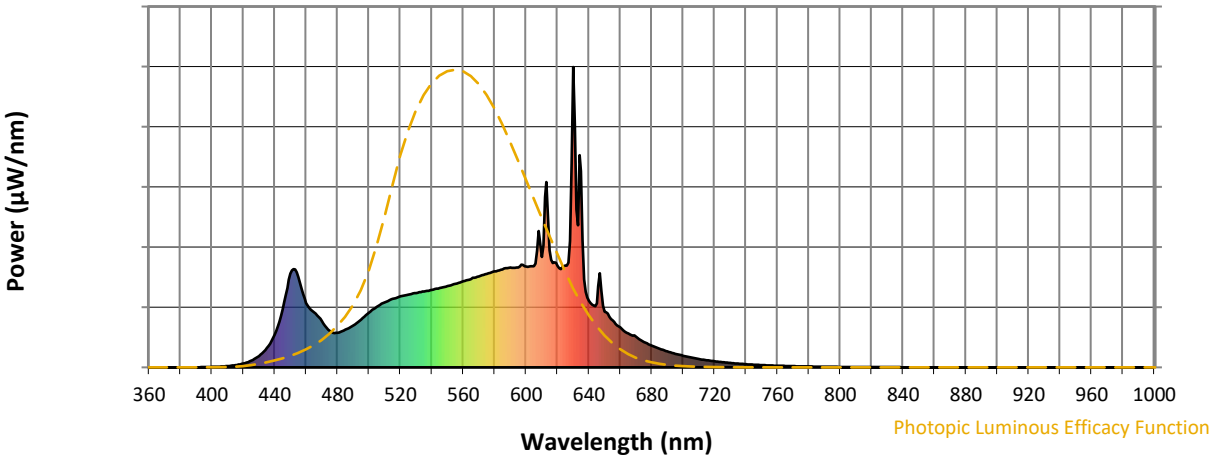
Photopic Flux vs. Wavelength



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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

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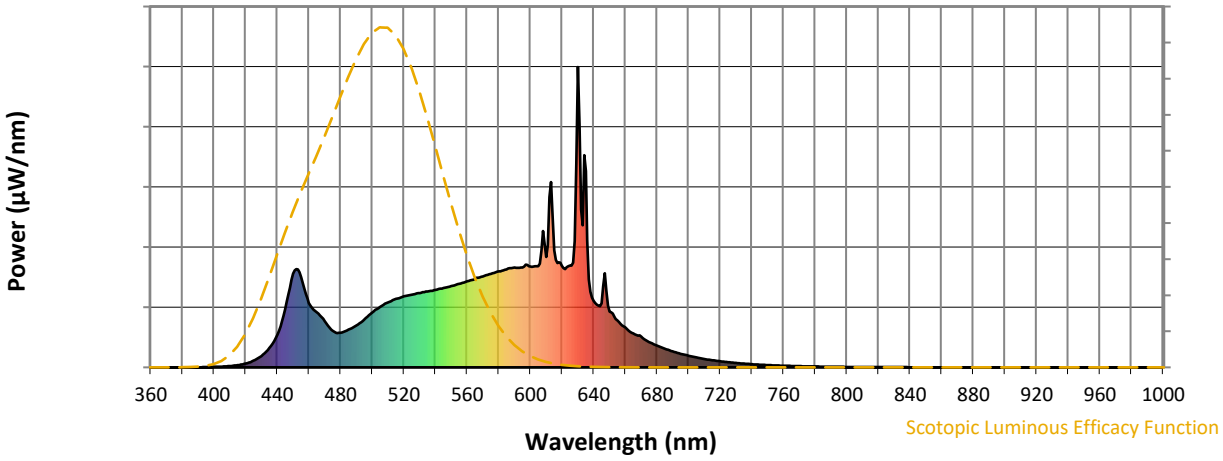
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.62**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

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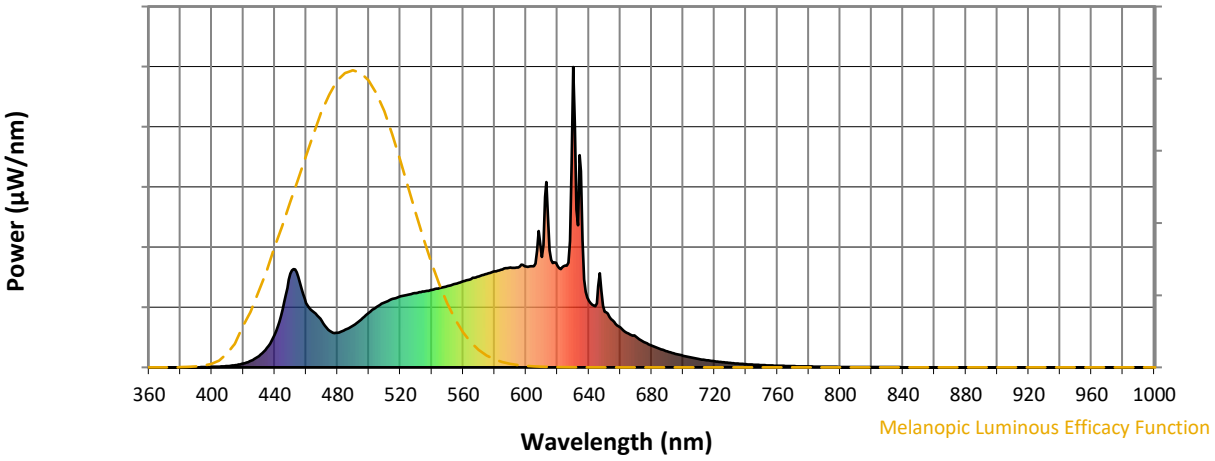
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.3**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

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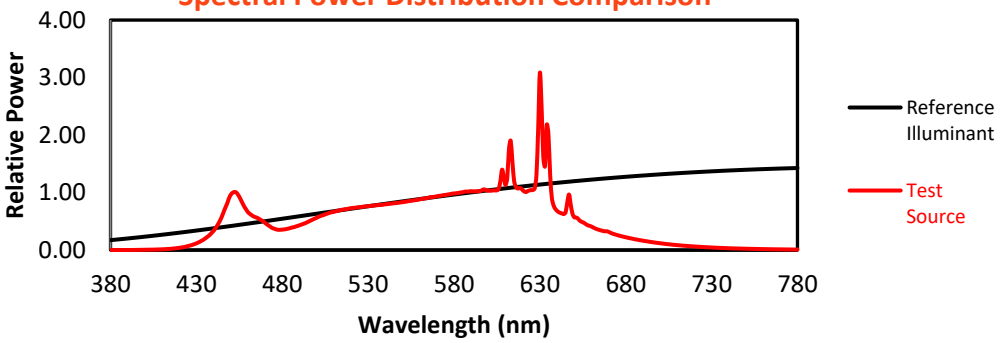
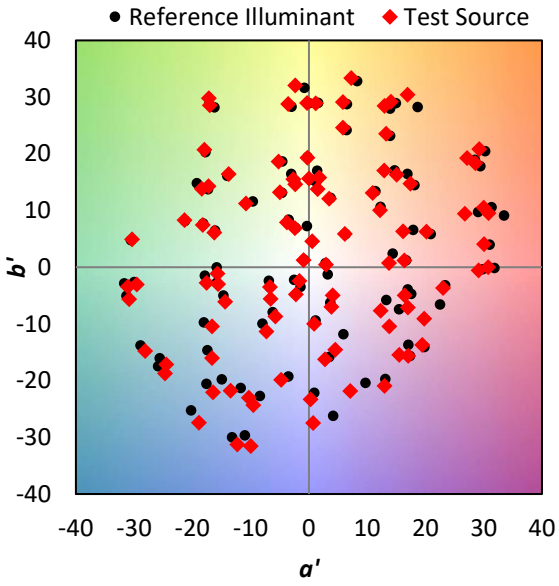
Summary

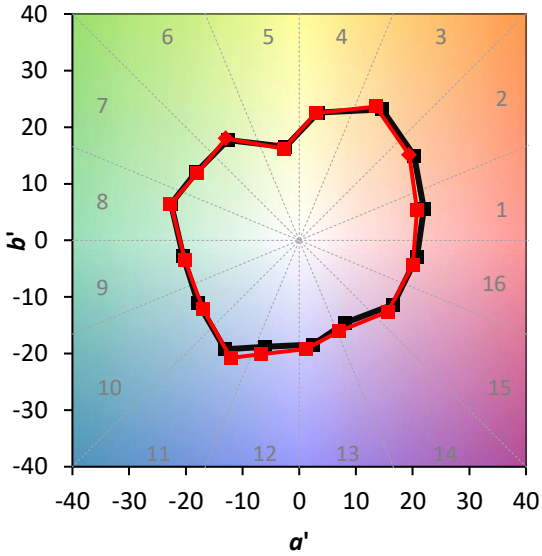
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

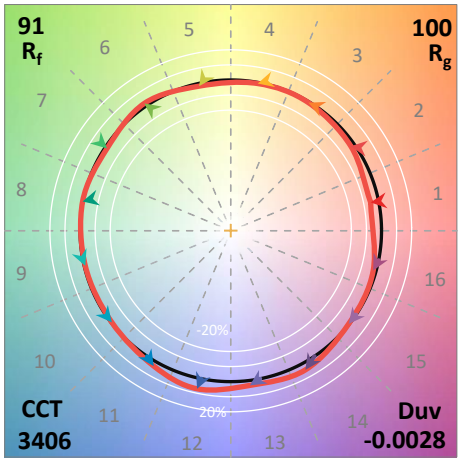
Spectral Power Distribution Comparison

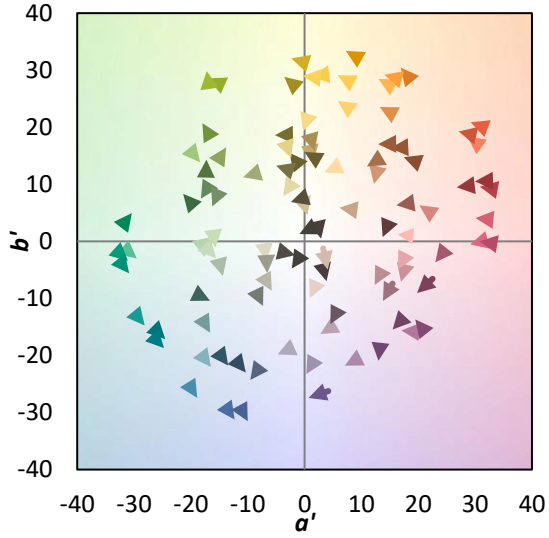


Color Vector Graphics









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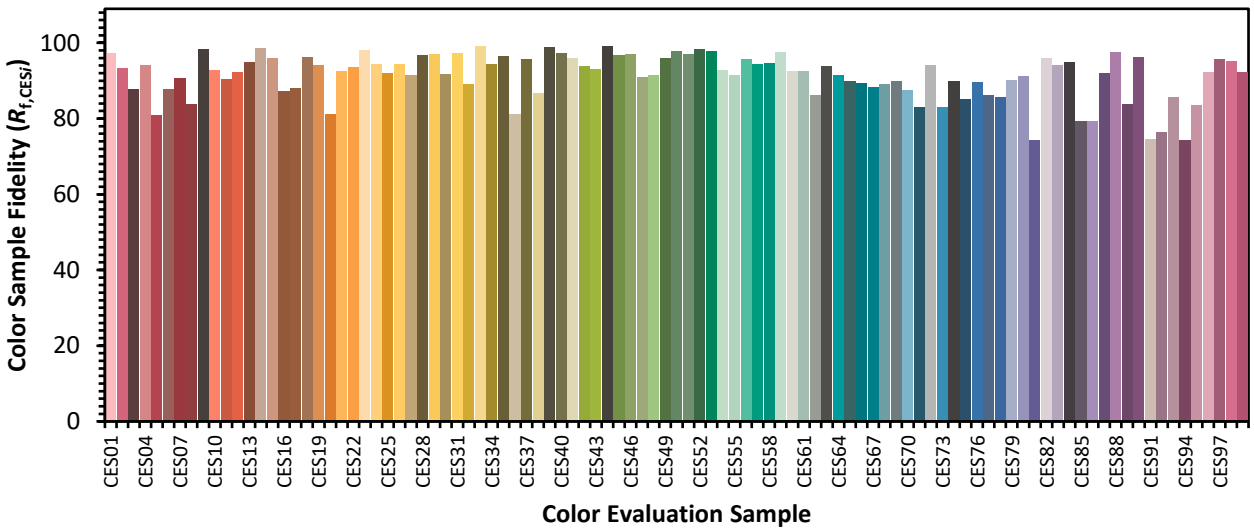
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 90
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 74
CES07 = 43	CES32 = 89	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 95	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 97	CES60 = 92	CES85 = 79
CES11 = 58	CES36 = 81	CES61 = 93	CES86 = 79
CES12 = 64	CES37 = 96	CES62 = 86	CES87 = 92
CES13 = 44	CES38 = 87	CES63 = 94	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 84
CES15 = 72	CES40 = 97	CES65 = 90	CES90 = 96
CES16 = 48	CES41 = 96	CES66 = 89	CES91 = 75
CES17 = 49	CES42 = 94	CES67 = 88	CES92 = 76
CES18 = 56	CES43 = 93	CES68 = 89	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 90	CES94 = 74
CES20 = 67	CES45 = 97	CES70 = 88	CES95 = 83
CES21 = 86	CES46 = 97	CES71 = 83	CES96 = 92
CES22 = 78	CES47 = 91	CES72 = 94	CES97 = 96
CES23 = 91	CES48 = 91	CES73 = 83	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 90	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 85	



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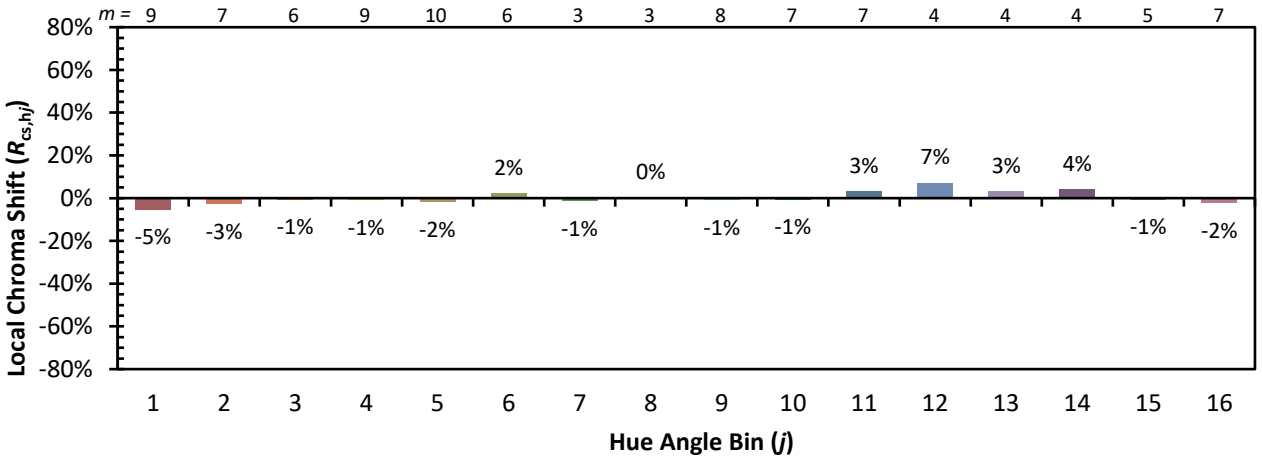
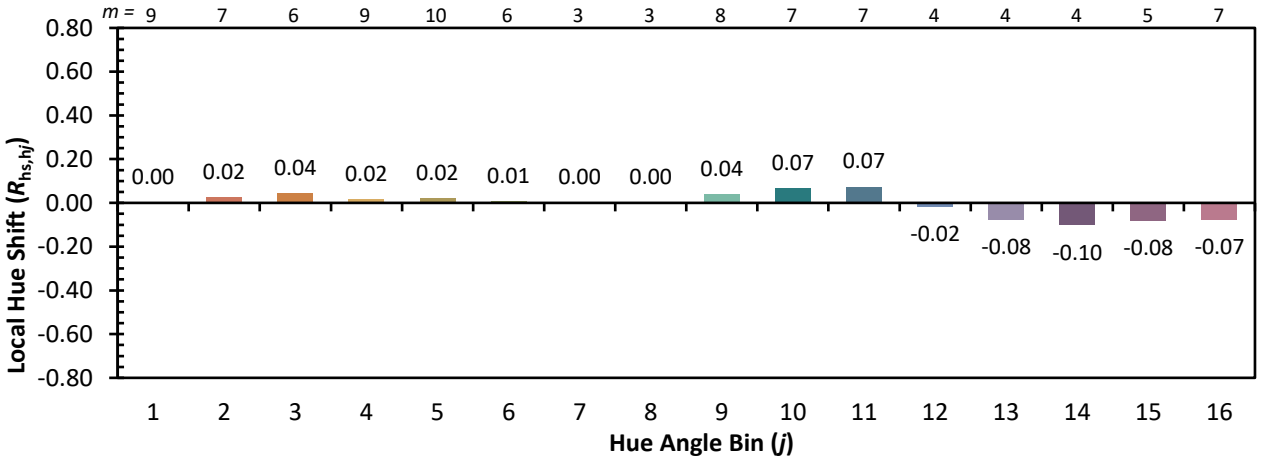
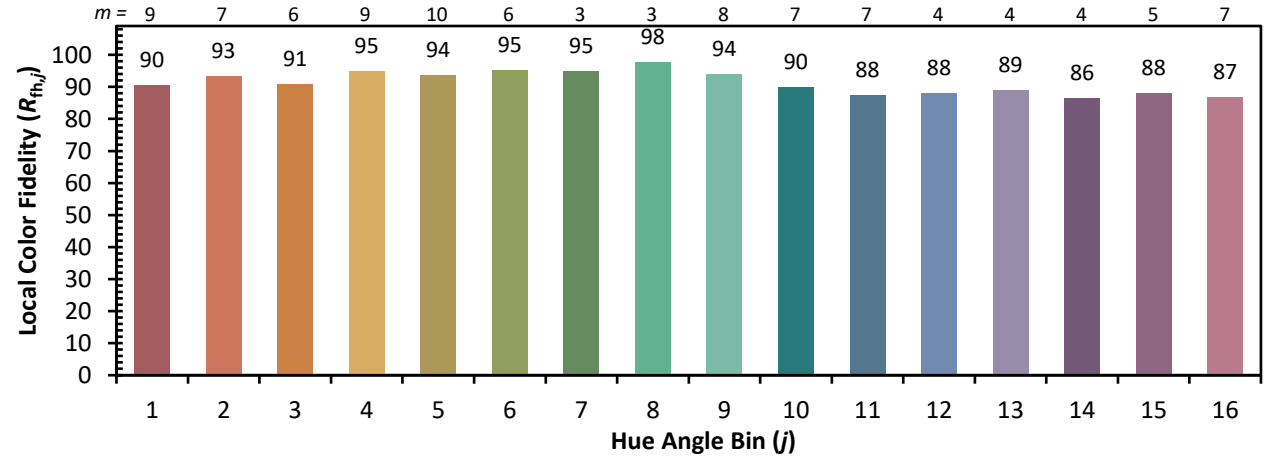
Color Rendition by Hue-Angle Bin







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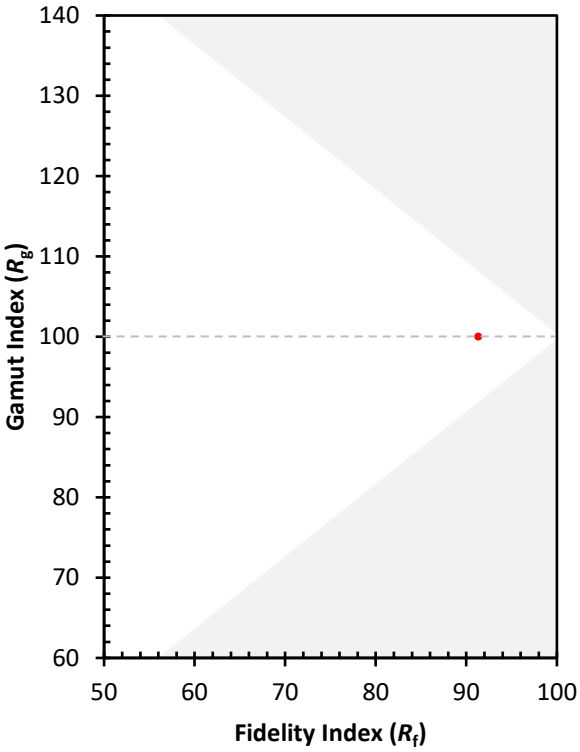
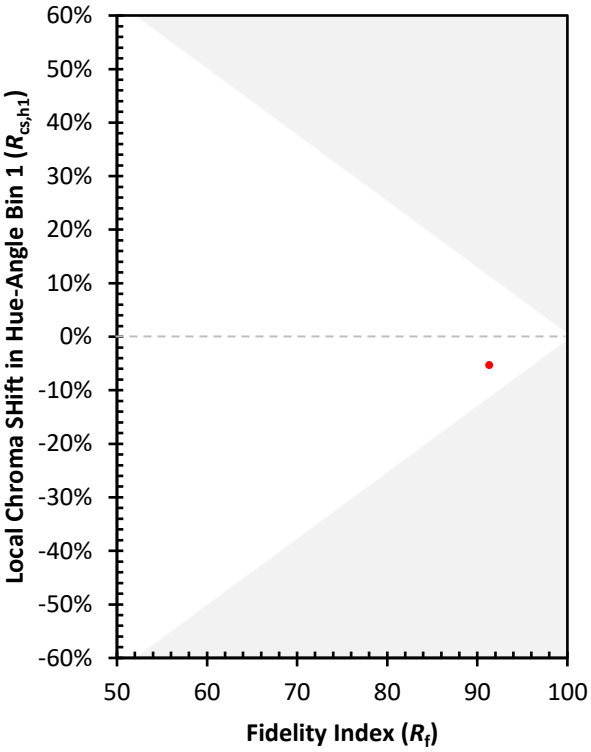
Measure Comparisons





(END OF REPORT)