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: P1431771

Luminaire Tested: EHBR1-36-UNV-A1-L840

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:	P1431771
	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-L840
Description:	Elevate Round Highbay at, 36000 lumens, 4000K 80CRI LEDs with A lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	36003.0 lumens
Efficiency:	N/A
Efficacy:	188.1 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

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Scaled Data Report

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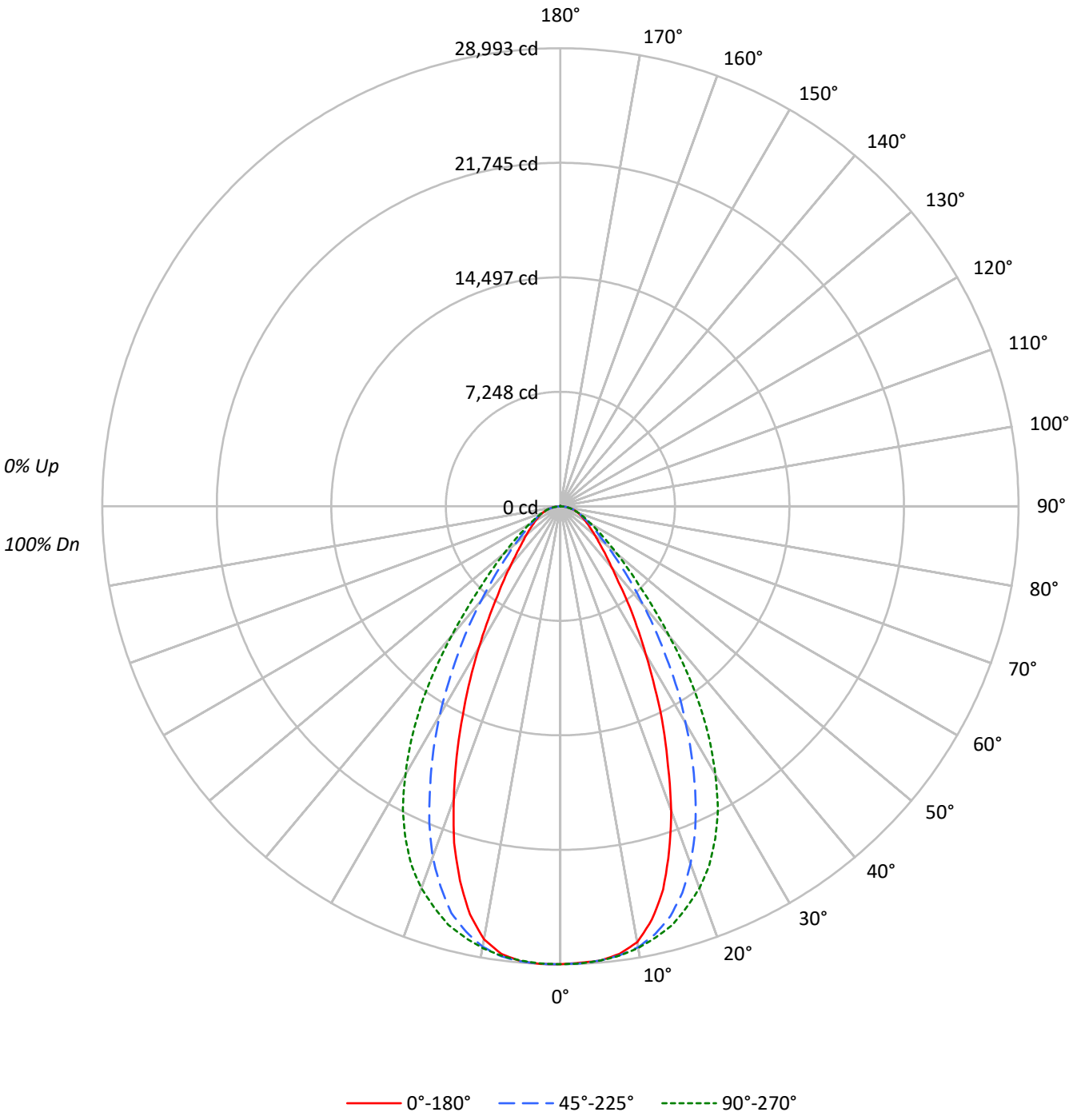
Luminous Intensity Polar Plot



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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	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°	136095	136095	136095	136095	136095
5°	136077	136057	136063	136303	136220
10°	133587	135144	135358	134976	132713
15°	122092	130612	133300	129564	119289
20°	102456	120332	128552	118066	98467
25°	79824	104818	120141	100990	75688
30°	58650	86044	106379	82780	55668
35°	42648	66902	88195	64021	39864
40°	30985	49899	65635	47793	30029
45°	24691	36918	46358	35317	23836
50°	20758	28106	34000	27179	20443
55°	18422	22552	26165	22175	18174
60°	16955	19212	21276	19092	17074
65°	16289	17408	18366	17462	16443
70°	16069	16452	16960	16544	16227
75°	15903	15804	15903	15849	16058
80°	15988	14839	14512	15069	15988
85°	14424	12231	12102	12430	14850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 48572 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2736.8	7.6
10°-20°	7355.4	20.4
20°-30°	8944.2	24.8
30°-40°	7285.7	20.2
40°-50°	4374.3	12.1
50°-60°	2517.4	7.0
60°-70°	1575.5	4.4
70°-80°	927.9	2.6
80°-90°	271.4	0.8
90°-100°	0.1	0.0
100°-110°	0.2	0.0
110°-120°	0.2	0.0
120°-130°	0.4	0.0
130°-140°	1.8	0.0
140°-150°	3.3	0.0
150°-160°	3.7	0.0
160°-170°	3.3	0.0
170°-180°	1.4	0.0
0°-30°	19036.4	52.9
0°-40°	26322.1	73.1
0°-60°	33213.8	92.3
0°-90°	35988.6	100.0
90°-120°	0.4	0.0
90°-150°	6.0	0.0
90°-180°	14.0	0.0
0°-180°	36003.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28980	28980	28980	28980	28980	
5°	28866	28862	28863	28914	28897	2728
15°	25113	26865	27418	26650	24536	6909
25°	15405	20229	23186	19490	14607	7019
35°	7439	11670	15384	11167	6954	4707
45°	3718	5559	6980	5318	3589	2933
55°	2250	2754	3196	2708	2220	2034
65°	1466	1567	1653	1572	1480	1457
75°	876	871	876	874	885	928
85°	268	227	225	231	276	286
90°	1	0	0	0	1	14
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	2
135°	3	2	2	2	3	2
145°	6	5	5	6	6	4
155°	9	7	6	8	10	4
165°	14	12	10	12	14	4
175°	18	16	13	16	18	2
180°	16	16	16	16	16	

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TEST NUMBER: P1431771
CATALOG NUMBER: EHBR1-36-UNV-A1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	28980.5	28980.5	28980.5	28980.5	28980.5	28980.5	*28980.5*	28980.5	28980.5
2.5°	*28916.8*	*28942.9*	*28953.8*	*28959.9*	*28966.6*	*28984.8*	*28992.7*	*28979.9*	*28990.8*
5°	28866.4	28868.2	28862.1	28889.5	28863.4	28881.6	*28914.4*	28901.6	28896.7
7.5°	28572.6	28633.3	28669.1	28678.2	28683.1	28705.5	*28728.6*	28598.1	28578.7
10°	28014.2	28115.6	28340.7	28405.1	28385.7	28422.1	*28305.5*	27964.4	27830.9
12.5°	26789.9	27146.2	27731.3	27991.7	27944.4	27976.6	*27579.6*	26859.7	26445.7
15°	25112.8	25635.4	26865.2	27378.7	27418.1	27378.7	*26649.7*	25246.9	24536.2
17.5°	22883.3	23848.5	25659.1	26655.8	26598.7	26617.5	*25233.6*	23160.1	22346.8
20°	20501.5	21530.4	24078.5	25741.0	25723.4	25617.8	*23625.1*	20890.6	19703.3
22.5°	17807.7	19134.6	22267.3	24616.3	24609.6	24433.6	*21666.3*	18412.3	17134.0
25°	15405.3	16706.7	20229.0	23238.4	23186.2	22985.9	*19490.3*	15940.0	14607.1
27.5°	12921.5	14274.5	18053.0	21623.9	21588.0	21369.5	*17410.2*	13629.2	12360.6
30°	10815.9	12052.9	15867.8	19847.2	19617.8	19592.9	*15265.7*	11489.6	10265.9
32.5°	9011.9	10072.3	13807.7	17989.2	17583.1	17699.1	*13128.5*	9700.2	8487.5
35°	7439.2	8373.4	11669.9	15840.5	15384.0	15534.0	*11167.3*	7959.4	6953.6
37.5°	6037.7	6936.0	9858.0	13750.6	13052.6	13335.5	*9442.3*	6647.1	5841.0
40°	5054.4	5767.0	8139.7	11457.5	10706.6	11167.3	*7796.1*	5544.2	4898.4
42.5°	4355.1	4820.1	6718.1	9268.1	8692.0	9018.6	*6425.5*	4634.9	4151.8
45°	3717.8	4088.7	5558.8	7313.6	6980.3	7283.2	*5317.8*	3952.1	3589.1
47.5°	3247.4	3533.3	4576.1	5906.0	5699.0	5794.9	*4441.3*	3448.9	3153.9
50°	2841.3	3062.2	3847.1	4766.7	4653.8	4712.6	*3720.2*	3000.9	2798.2
52.5°	2525.7	2687.7	3226.7	3917.5	3861.6	3870.7	*3170.3*	2639.8	2492.9
55°	2250.1	2363.0	2754.5	3209.1	3195.8	3198.2	*2708.4*	2339.3	2219.7
57.5°	2009.1	2102.6	2367.2	2695.6	2676.2	2680.4	*2345.4*	2077.7	2000.6
60°	1805.2	1867.7	2045.5	2278.0	2265.3	2259.8	*2032.8*	1844.6	1817.9
62.5°	1624.3	1664.4	1787.6	1952.7	1928.4	1933.9	*1787.0*	1666.2	1626.7
65°	1465.9	1479.8	1566.6	1668.6	1652.8	1666.2	*1571.5*	1488.9	1479.8
67.5°	1311.1	1325.0	1376.0	1444.6	1426.4	1437.3	*1377.2*	1328.7	1320.8
70°	1170.3	1169.7	1198.2	1235.2	1235.2	1237.0	*1204.9*	1175.7	1181.8
72.5°	1024.6	1020.9	1029.4	1054.3	1047.7	1070.7	*1036.7*	1027.6	1028.8
75°	876.5	866.2	871.0	883.8	876.5	888.6	*873.5*	885.0	885.0
77.5°	736.9	717.5	711.4	713.2	699.9	718.1	*721.7*	729.6	747.8
80°	591.2	563.9	548.7	548.1	536.6	548.1	*557.2*	573.6	591.2
82.5°	438.9	415.2	389.7	384.8	377.5	384.2	*396.4*	415.8	444.3
85°	267.7	242.8	227.0	218.5	224.6	224.6	*230.7*	258.0	275.6
87.5°	96.5	84.4	69.2	69.8	71.6	74.1	*77.1*	97.1	106.2
90°	1.2	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°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.6
97.5°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.6
100°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2
102.5°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2
105°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2
107.5°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2
110°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2

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Scaled Data Report

TEST NUMBER: P1431771
CATALOG NUMBER: EHBR1-36-UNV-A1-L840

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2
115°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2
117.5°	1.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.2
120°	1.2	0.0	0.0	0.0	0.0	0.0	*0.0*	0.6	1.2
122.5°	1.8	0.6	0.0	0.0	0.0	0.0	*0.0*	0.6	1.8
125°	1.8	0.6	0.0	0.0	0.0	0.0	*0.6*	0.6	1.8
127.5°	1.8	0.6	0.0	0.0	0.0	0.0	*0.6*	1.2	1.8
130°	1.8	1.2	0.6	0.0	0.6	0.6	*1.2*	1.2	1.8
132.5°	2.4	1.8	1.8	1.2	1.2	1.8	*1.8*	2.4	2.4
135°	3.0	2.4	2.4	1.8	2.4	2.4	*2.4*	2.4	3.0
137.5°	3.0	3.0	3.0	3.0	3.0	3.0	*3.0*	3.0	3.6
140°	4.2	3.6	3.6	3.6	3.6	3.6	*3.6*	4.2	4.2
142.5°	4.9	4.9	4.2	4.2	4.2	4.9	*4.9*	4.9	5.5
145°	5.5	5.5	4.9	4.9	4.9	5.5	*5.5*	6.1	6.1
147.5°	7.3	6.7	5.5	5.5	5.5	5.5	*6.1*	6.7	7.3
150°	7.9	7.3	6.1	6.1	6.1	6.1	*6.7*	7.9	8.5
152.5°	8.5	7.9	6.7	6.1	6.1	6.1	*7.3*	7.9	9.1
155°	9.1	8.5	7.3	6.1	6.1	6.7	*7.9*	9.1	9.7
157.5°	10.9	9.7	8.5	7.3	7.3	7.9	*9.1*	10.3	10.9
160°	12.1	10.9	9.7	8.5	8.5	9.1	*10.3*	11.5	12.1
162.5°	13.4	12.1	10.3	9.7	9.1	9.7	*10.9*	12.7	13.4
165°	14.0	12.7	11.5	10.3	10.3	10.3	*12.1*	13.4	14.0
167.5°	14.6	14.0	12.1	10.9	10.9	10.9	*12.7*	14.0	14.6
170°	15.2	14.6	12.7	11.5	10.9	11.5	*13.4*	14.6	15.2
172.5°	16.4	15.8	14.0	12.7	12.1	12.7	*14.6*	15.8	16.4
175°	18.2	17.0	15.8	14.0	13.4	14.0	*15.8*	17.0	18.2
177.5°	18.8	17.6	16.4	14.6	14.0	14.6	*16.4*	17.6	18.8
180°	16.4	16.4	16.4	16.4	16.4	16.4	*16.4*	16.4	16.4

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Scaled Data Report

TEST NUMBER: P1431771
CATALOG NUMBER: EHBR1-36-UNV-A1-L840

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	19.46	20.72	19.82	21.04	21.35	20.44	21.70	20.80	22.02	22.33
	3H	21.02	22.15	21.40	22.48	22.85	21.78	22.90	22.16	23.24	23.60
	4H	21.69	22.74	22.10	23.09	23.48	22.34	23.39	22.74	23.74	24.13
	6H	22.25	23.21	22.66	23.58	23.98	22.77	23.73	23.19	24.11	24.50
	8H	22.45	23.36	22.88	23.75	24.16	22.91	23.82	23.34	24.21	24.62
	12H	22.57	23.45	23.01	23.83	24.26	22.98	23.86	23.42	24.24	24.67
4H	2H	20.03	21.08	20.43	21.43	21.81	20.80	21.85	21.20	22.20	22.58
	3H	21.82	22.68	22.23	23.09	23.49	22.39	23.25	22.80	23.66	24.06
	4H	22.61	23.39	23.05	23.81	24.25	23.08	23.86	23.52	24.28	24.72
	6H	23.30	23.97	23.76	24.41	24.88	23.66	24.32	24.12	24.77	25.24
	8H	23.55	24.17	24.02	24.62	25.09	23.84	24.46	24.31	24.91	25.38
	12H	23.72	24.27	24.20	24.75	25.23	23.96	24.51	24.45	24.99	25.47
8H	4H	22.89	23.52	23.37	23.97	24.44	23.32	23.94	23.79	24.39	24.86
	6H	23.71	24.22	24.22	24.72	25.20	24.02	24.53	24.52	25.02	25.51
	8H	24.04	24.50	24.57	25.01	25.51	24.28	24.73	24.80	25.25	25.74
	12H	24.29	24.69	24.81	25.19	25.76	24.47	24.87	24.99	25.37	25.94
12H	4H	22.91	23.46	23.40	23.95	24.42	23.33	23.88	23.82	24.36	24.84
	6H	23.76	24.21	24.28	24.73	25.23	24.06	24.52	24.59	25.03	25.53
	8H	24.15	24.55	24.66	25.04	25.62	24.38	24.78	24.90	25.28	25.85

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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: SP1-2506-472-1

Test Date: 07/30/2025

Luminaire Tested: EHBR-60-L840-N

Data in this report applies to families of products including EHBR-60-L840-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

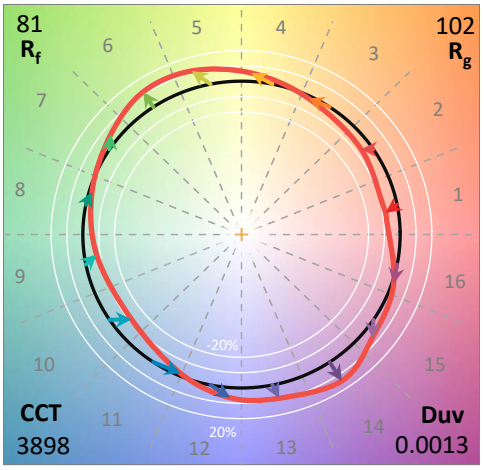
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-1
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-L840-N**
Description:	Elevate Round Highbay at, 60000 lumens, 4000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	3898
CIE u':	0.2263
CIE v':	0.5052
Duv:	0.0013
CIE x:	0.3861
CIE y:	0.3831
CIE z:	0.2308
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	578
Purity:	30.85729
Rf:	80.7
Rg:	102.1

CRI (Ra):	82.1				
R1:	84.4	R9:	38.5		
R2:	83.5	R10:	58.9		
R3:	80.8	R11:	83.6		
R4:	83.9	R12:	54.2		
R5:	82.1	R13:	82.8		
R6:	77.3	R14:	88.2		
R7:	86.4	R15:	81.2		
R8:	78.3				



Test Conditions

Stabilization Time:	42M
Operation Time:	1H 42M
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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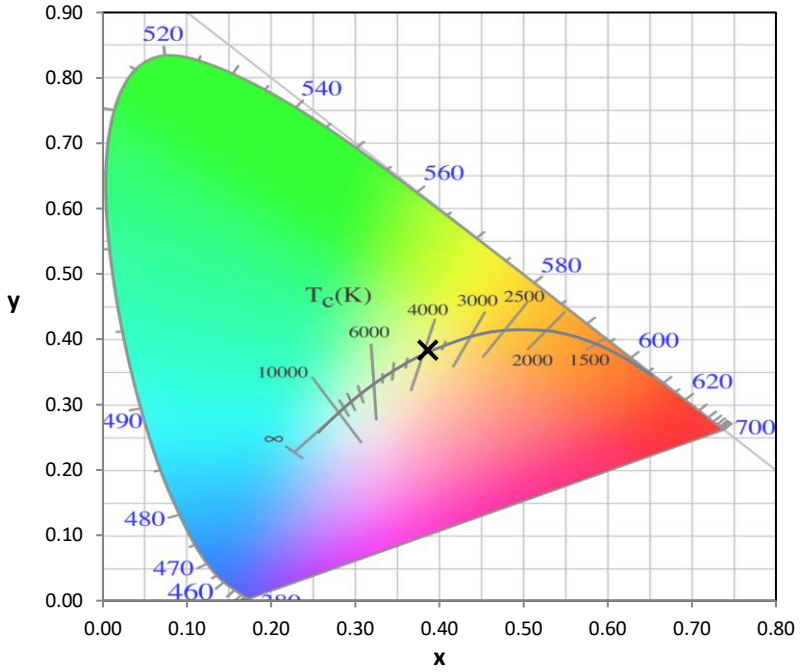
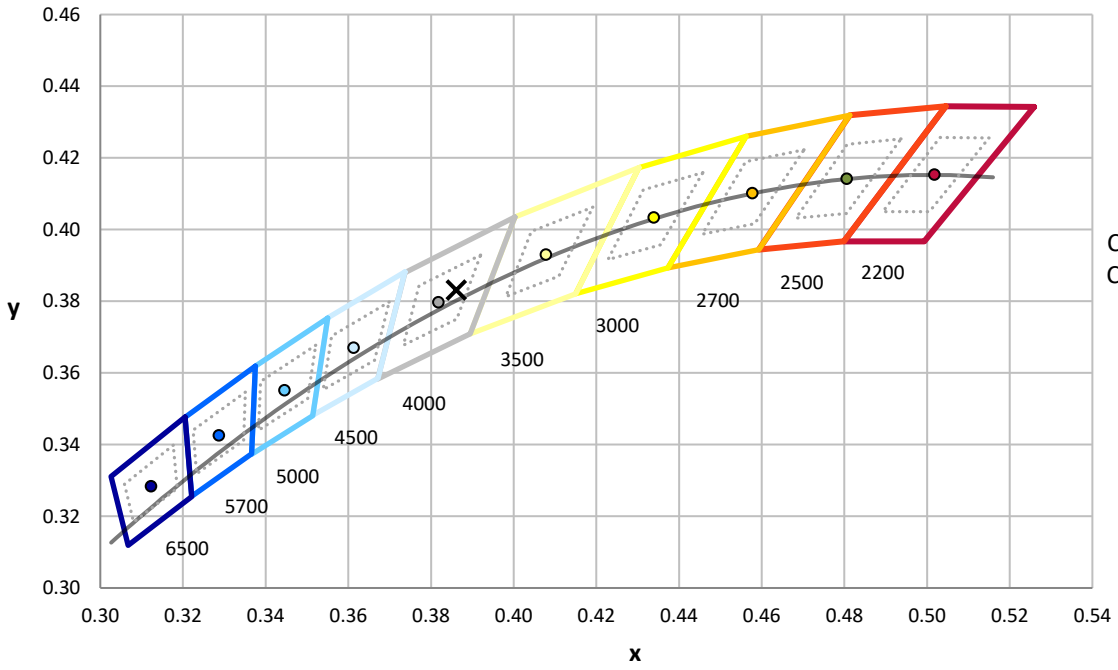
CIE 1931 Chromaticity Diagram



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



CCT = 3898K
CIE x = 0.3861
CIE y = 0.3831
Duv = 0.0013

Point lies inside the ANSI 4000K 4-step quadrangle

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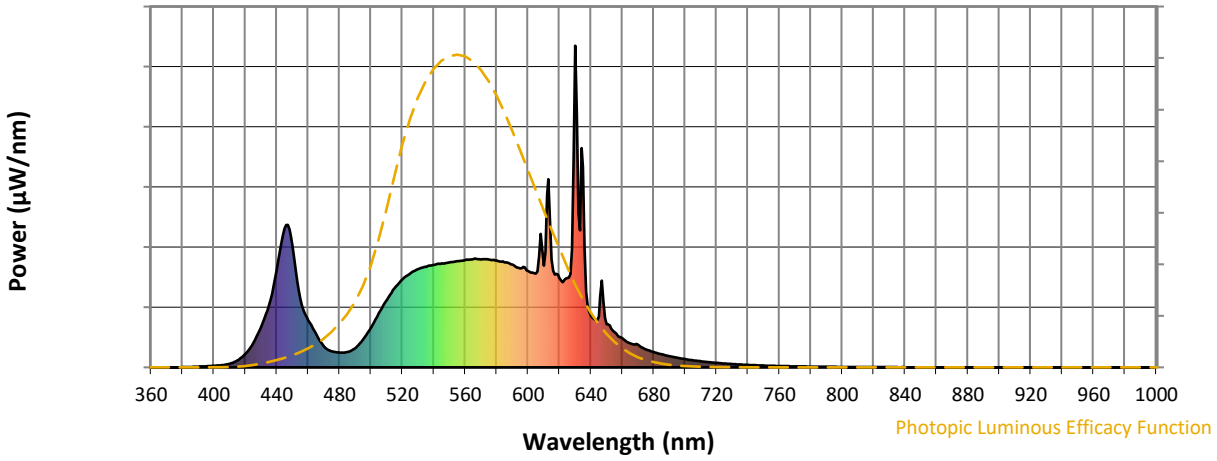
Photopic Flux vs. Wavelength



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	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

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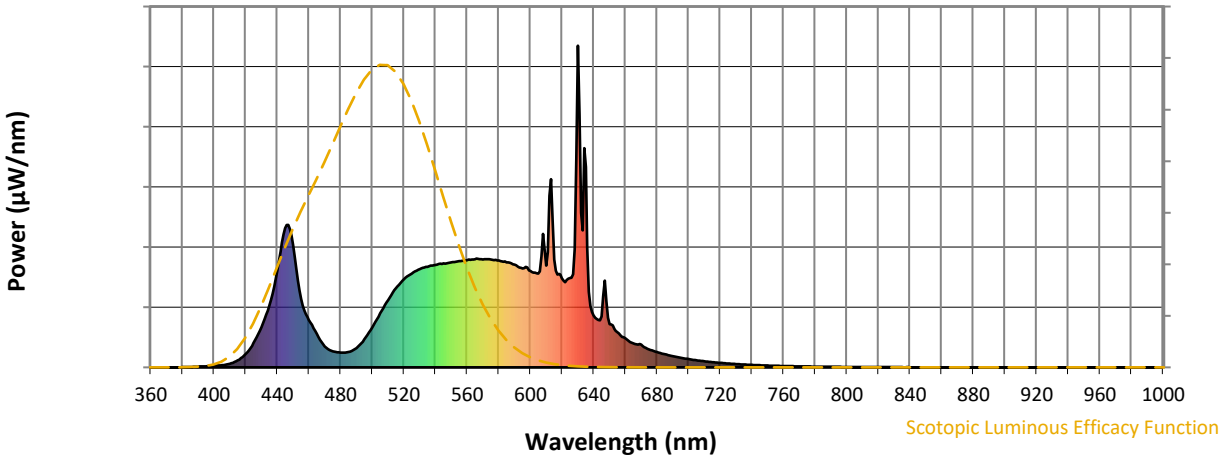
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.55**

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	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

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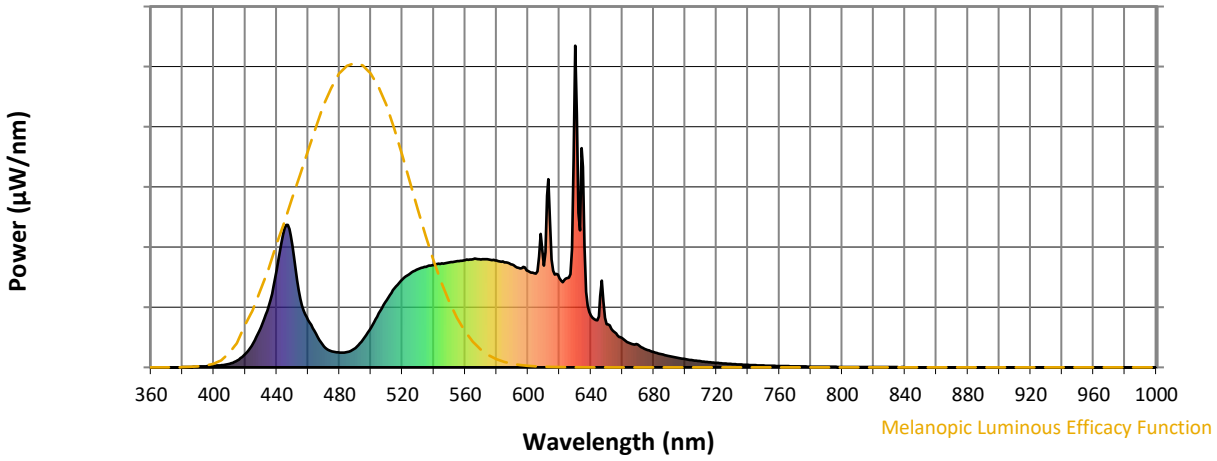
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.99**

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	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

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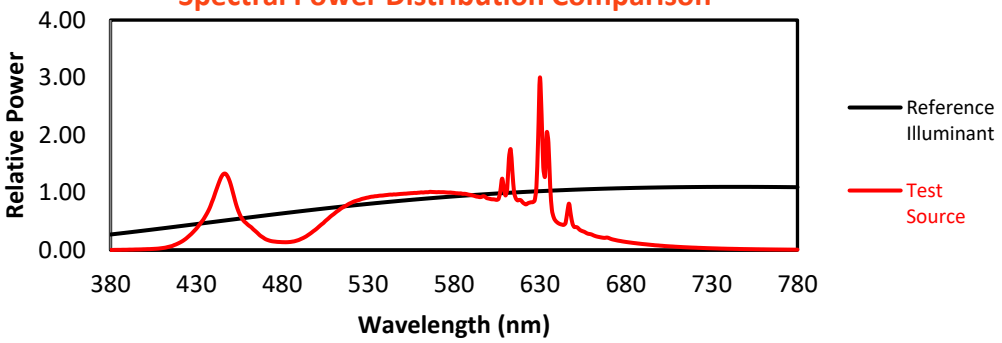
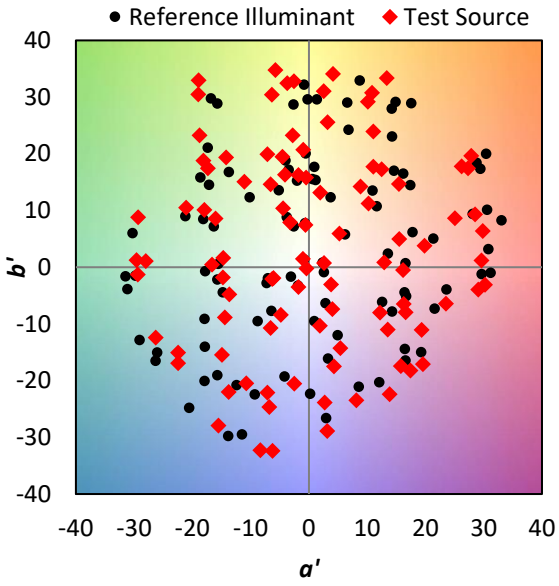
Summary

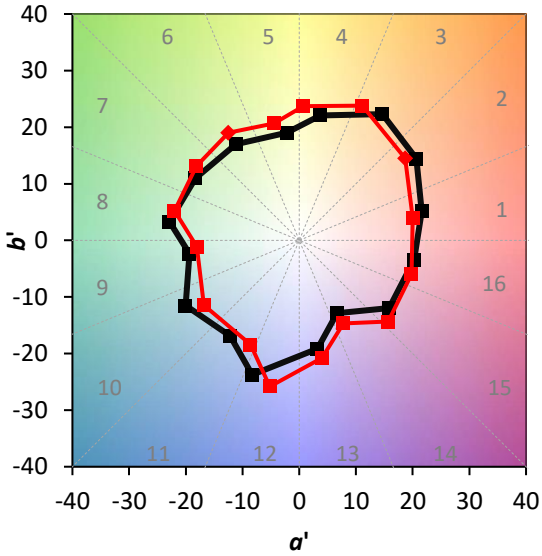
R_f = 80.7
R_g = 102.1
CIE R_a = 82.1
R_9 = 38.5

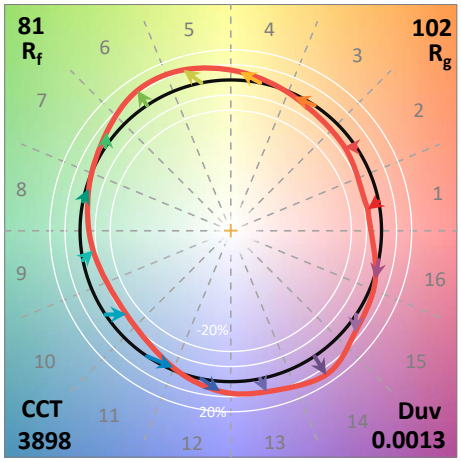
Spectral Power Distribution Comparison

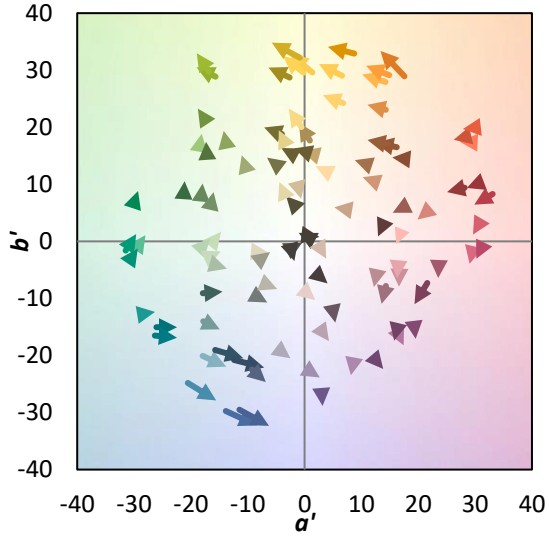


Color Vector Graphics









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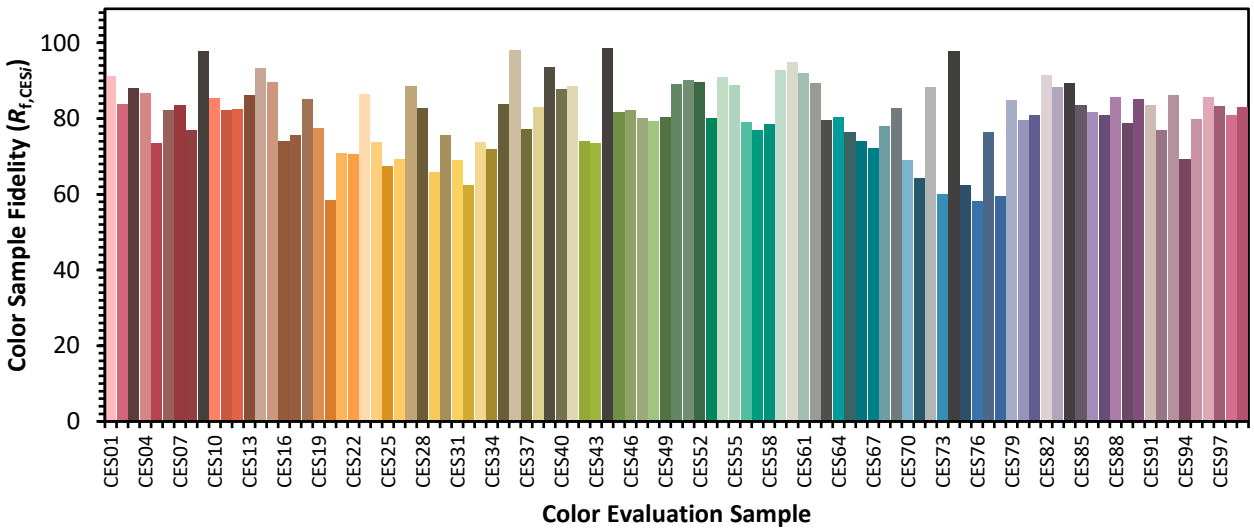
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 69	CES51 = 90	CES76 = 58
CES02 = 61	CES27 = 89	CES52 = 90	CES77 = 76
CES03 = 31	CES28 = 83	CES53 = 80	CES78 = 60
CES04 = 69	CES29 = 66	CES54 = 91	CES79 = 85
CES05 = 48	CES30 = 76	CES55 = 89	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 79	CES81 = 81
CES07 = 41	CES32 = 62	CES57 = 77	CES82 = 91
CES08 = 40	CES33 = 74	CES58 = 79	CES83 = 88
CES09 = 29	CES34 = 72	CES59 = 93	CES84 = 89
CES10 = 74	CES35 = 84	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 92	CES86 = 82
CES12 = 63	CES37 = 77	CES62 = 89	CES87 = 81
CES13 = 43	CES38 = 83	CES63 = 80	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 80	CES89 = 79
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 74	CES91 = 83
CES17 = 49	CES42 = 74	CES67 = 72	CES92 = 77
CES18 = 56	CES43 = 73	CES68 = 78	CES93 = 86
CES19 = 71	CES44 = 98	CES69 = 83	CES94 = 69
CES20 = 65	CES45 = 82	CES70 = 69	CES95 = 80
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 86
CES22 = 78	CES47 = 80	CES72 = 88	CES97 = 83
CES23 = 91	CES48 = 79	CES73 = 60	CES98 = 81
CES24 = 90	CES49 = 80	CES74 = 98	CES99 = 83
CES25 = 71	CES50 = 89	CES75 = 62	



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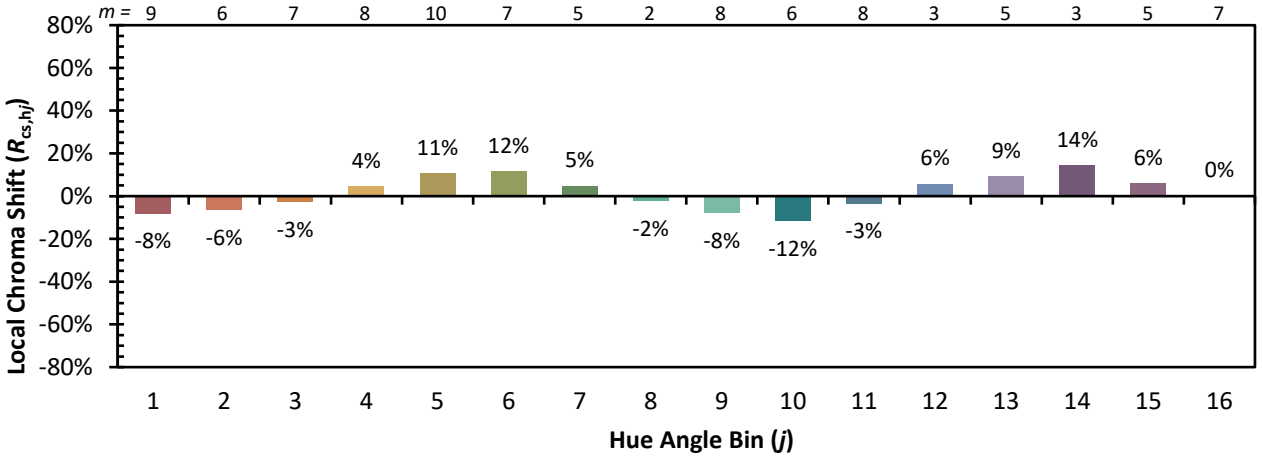
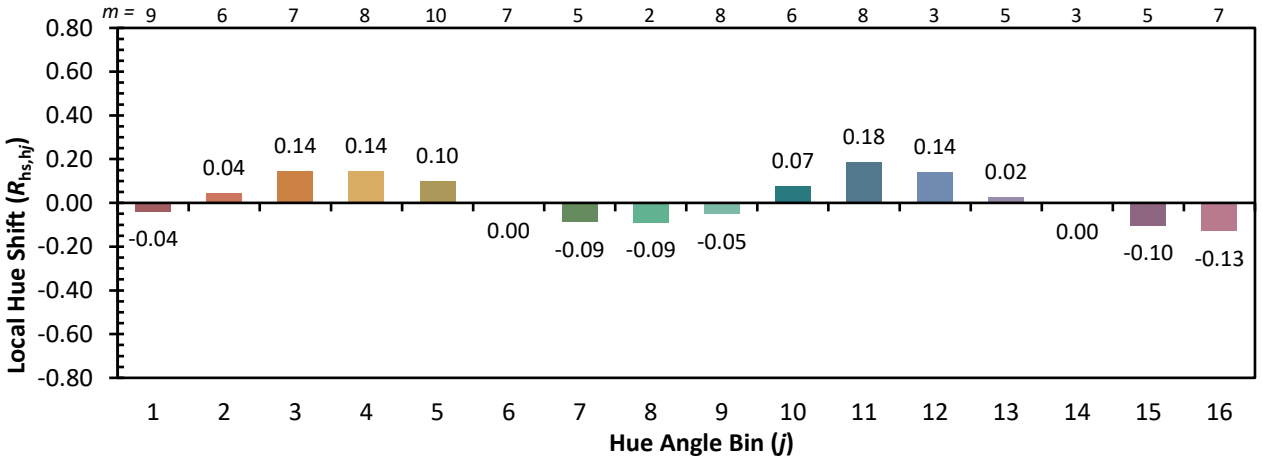
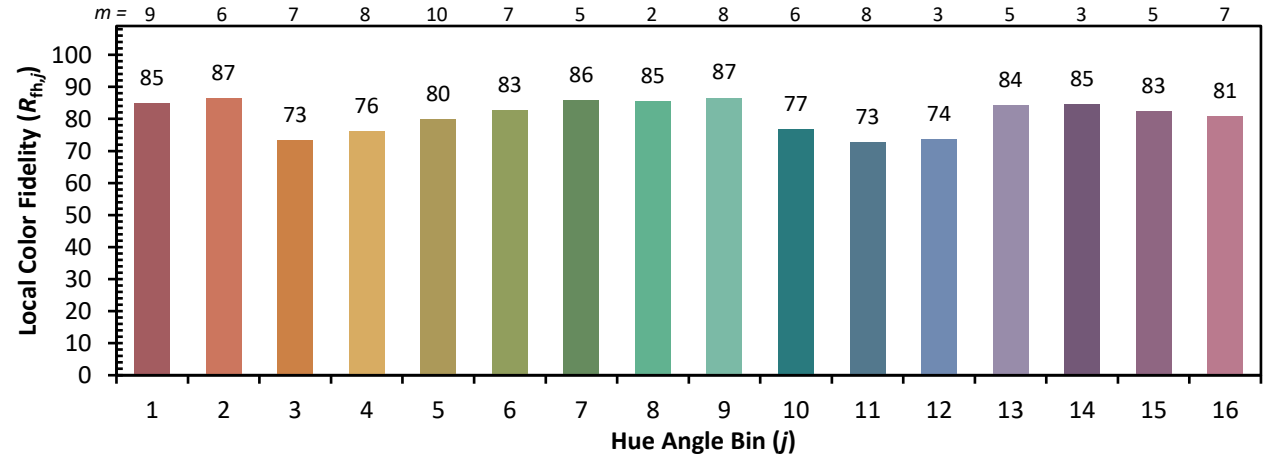
Color Rendition by Hue-Angle Bin







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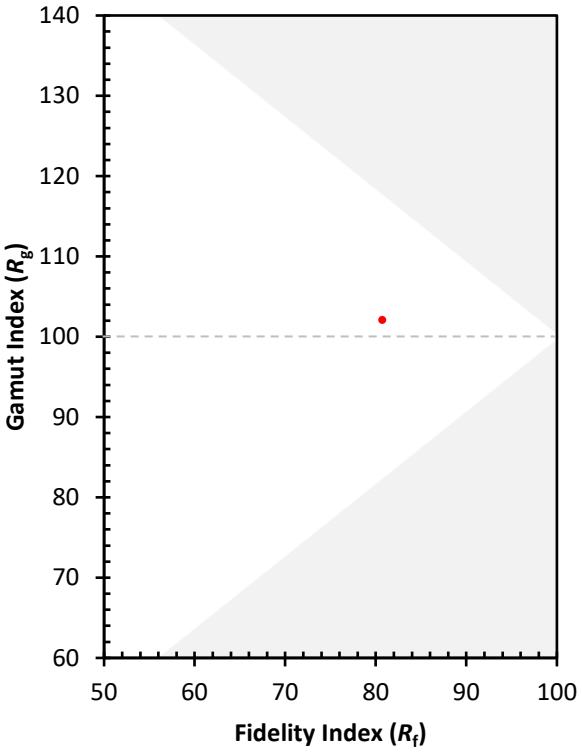
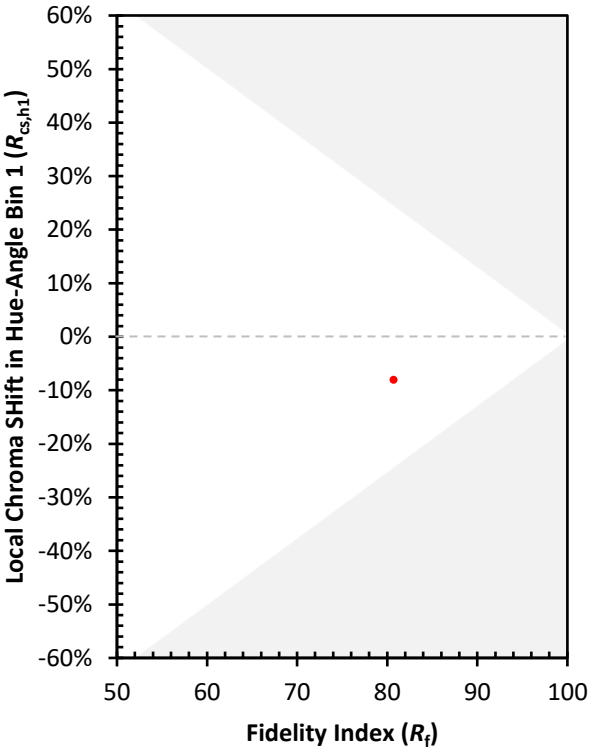
Measure Comparisons





(END OF REPORT)