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: P1433802

Luminaire Tested: EHBR1-30-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:	P1433802
	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:	EHBR1-30-UNV-A1-L940
Description:	Elevate Round Highbay at, 30000 lumens, 4000K 90CRI LEDs with A lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28345.3 lumens
Efficiency:	N/A
Efficacy:	177.4 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):	159.8
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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Scaled Data Report

TEST NUMBER: P1433802
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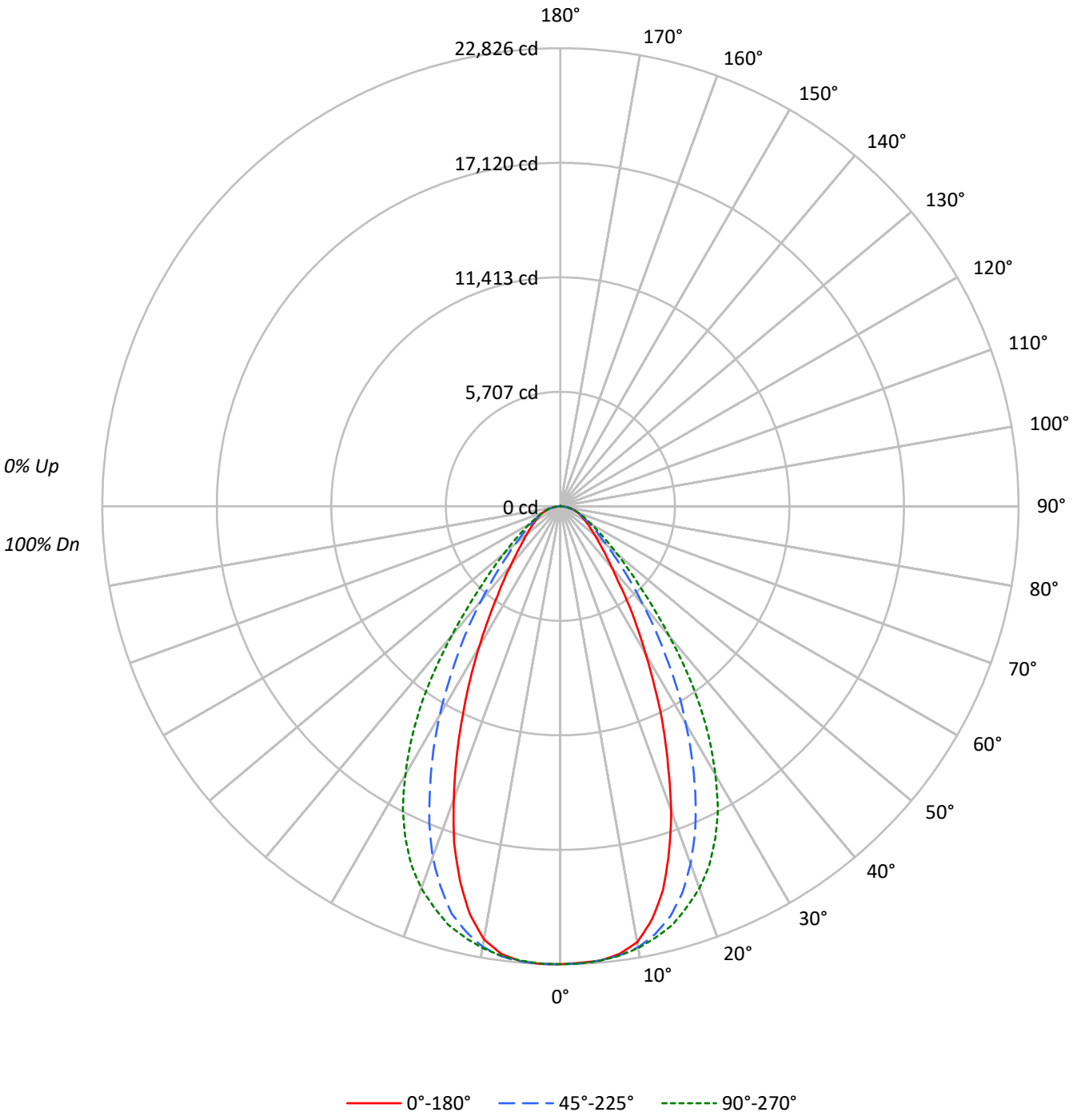
Luminous Intensity Polar Plot



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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°	107148	107148	107148	107148	107148
5°	107134	107118	107123	107312	107247
10°	105173	106399	106568	106267	104485
15°	96124	102831	104948	102006	93916
20°	80664	94738	101210	92954	77524
25°	62845	82524	94588	79510	59589
30°	46175	67743	83753	65172	43827
35°	33577	52672	69437	50403	31385
40°	24394	39286	51674	37628	23642
45°	19439	29065	36498	27805	18766
50°	16343	22128	26768	21398	16095
55°	14504	17755	20600	17459	14308
60°	13348	15125	16750	15031	13443
65°	12824	13705	14459	13748	12946
70°	12651	12953	13353	13025	12775
75°	12521	12443	12521	12476	12643
80°	12589	11683	11423	11864	12589
85°	11353	9629	9526	9785	11692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 38240 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2154.7	7.6
10°-20°	5791.0	20.4
20°-30°	7041.8	24.8
30°-40°	5736.1	20.2
40°-50°	3443.9	12.1
50°-60°	1982.0	7.0
60°-70°	1240.4	4.4
70°-80°	730.5	2.6
80°-90°	213.7	0.8
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.3	0.0
130°-140°	1.5	0.0
140°-150°	2.6	0.0
150°-160°	2.9	0.0
160°-170°	2.6	0.0
170°-180°	1.1	0.0
0°-30°	14987.4	52.9
0°-40°	20723.5	73.1
0°-60°	26149.4	92.3
0°-90°	28334.0	100.0
90°-120°	0.3	0.0
90°-150°	4.8	0.0
90°-180°	11.0	0.0
0°-180°	28345.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22816	22816	22816	22816	22816	
5°	22727	22723	22724	22764	22750	2148
15°	19771	21151	21586	20981	19317	5439
25°	12129	15926	18255	15345	11500	5526
35°	5857	9188	12112	8792	5475	3705
45°	2927	4376	5496	4187	2826	2309
55°	1772	2169	2516	2132	1748	1601
65°	1154	1233	1301	1237	1165	1147
75°	690	686	690	688	697	731
85°	211	179	177	182	217	225
90°	1	0	0	0	0	11
95°	1	0	0	0	0	1
105°	1	0	0	0	1	1
115°	1	0	0	0	1	1
125°	1	0	0	0	1	1
135°	2	2	2	2	2	2
145°	4	4	4	4	5	3
155°	7	6	5	6	8	3
165°	11	9	8	10	11	3
175°	14	12	10	12	14	1
180°	13	13	13	13	13	

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TEST NUMBER: P1433802
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	22816.5	22816.5	22816.5	22816.5	22816.5	22816.5	*22816.5*	22816.5	22816.5
2.5°	*22766.4*	*22786.9*	*22795.4*	*22800.3*	*22805.5*	*22819.8*	*22826.1*	*22816.0*	*22824.6*
5°	22726.7	22728.1	22723.3	22744.8	22724.2	22738.6	*22764.4*	22754.3	22750.5
7.5°	22495.3	22543.1	22571.4	22578.5	22582.4	22600.1	*22618.1*	22515.5	22500.1
10°	22055.7	22135.5	22312.8	22363.4	22348.1	22376.8	*22285.1*	22016.5	21911.4
12.5°	21091.8	21372.3	21833.0	22038.0	22000.7	22026.1	*21713.5*	21146.8	20820.9
15°	19771.4	20182.9	21151.1	21555.4	21586.4	21555.4	*20981.4*	19877.0	19317.4
17.5°	18016.2	18776.0	20201.5	20986.2	20941.3	20956.1	*19866.5*	18234.1	17593.8
20°	16141.0	16950.9	18957.1	20266.0	20252.2	20169.0	*18600.1*	16447.3	15512.6
22.5°	14020.2	15064.8	17531.2	19380.5	19375.3	19236.7	*17058.0*	14496.0	13489.7
25°	12128.6	13153.3	15926.4	18295.8	18254.7	18096.9	*15344.8*	12549.6	11500.2
27.5°	10173.2	11238.4	14213.2	17024.5	16996.4	16824.3	*13707.1*	10730.3	9731.6
30°	8515.4	9489.3	12492.8	15625.8	15445.2	15425.5	*12018.7*	9045.8	8082.4
32.5°	7095.1	7930.0	10870.9	14163.0	13843.3	13934.5	*10336.1*	7637.1	6682.2
35°	5856.9	6592.4	9187.8	12471.3	12112.0	12230.0	*8792.0*	6266.4	5474.6
37.5°	4753.5	5460.7	7761.3	10825.9	10276.4	10499.1	*7434.0*	5233.3	4598.7
40°	3979.3	4540.4	6408.4	9020.5	8429.3	8792.0	*6138.0*	4364.9	3856.5
42.5°	3428.8	3794.9	5289.2	7296.7	6843.3	7100.4	*5058.8*	3649.1	3268.7
45°	2927.0	3219.0	4376.4	5758.0	5495.7	5734.1	*4186.7*	3111.5	2825.7
47.5°	2556.7	2781.7	3602.8	4649.8	4486.8	4562.4	*3496.7*	2715.3	2483.1
50°	2237.0	2410.9	3028.8	3752.9	3663.9	3710.3	*2928.9*	2362.7	2203.1
52.5°	1988.5	2116.0	2540.4	3084.2	3040.3	3047.4	*2496.0*	2078.3	1962.7
55°	1771.5	1860.4	2168.6	2526.5	2516.1	2518.0	*2132.4*	1841.8	1747.6
57.5°	1581.7	1655.3	1863.8	2122.3	2107.0	2110.4	*1846.5*	1635.8	1575.1
60°	1421.2	1470.4	1610.4	1793.5	1783.4	1779.2	*1600.4*	1452.2	1431.3
62.5°	1278.8	1310.4	1407.3	1537.3	1518.2	1522.5	*1406.9*	1311.8	1280.7
65°	1154.1	1165.1	1233.4	1313.7	1301.2	1311.8	*1237.2*	1172.3	1165.1
67.5°	1032.3	1043.3	1083.3	1137.4	1123.0	1131.7	*1084.3*	1046.1	1039.9
70°	921.4	920.8	943.4	972.5	972.5	973.9	*948.6*	925.7	930.4
72.5°	806.6	803.8	810.5	830.1	824.8	843.0	*816.2*	809.0	810.0
75°	690.1	682.0	685.8	695.8	690.1	699.7	*687.6*	696.8	696.8
77.5°	580.1	564.9	560.1	561.5	551.0	565.3	*568.2*	574.5	588.7
80°	465.5	443.9	432.0	431.5	422.4	431.5	*438.7*	451.6	465.5
82.5°	345.5	326.9	306.8	303.0	297.3	302.5	*312.1*	327.4	349.8
85°	210.7	191.2	178.7	172.1	176.8	176.8	*181.6*	203.1	217.0
87.5°	76.0	66.4	54.5	55.0	56.4	58.3	*60.7*	76.5	83.7
90°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.5
92.5°	0.5	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.5
95°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.5
97.5°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.5
100°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9
102.5°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9
105°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9
107.5°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9
110°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9

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Scaled Data Report

TEST NUMBER: P1433802
CATALOG NUMBER: EHBR1-30-UNV-A1-L940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9
115°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9
117.5°	1.4	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.9
120°	0.9	0.0	0.0	0.0	0.0	0.0	*0.0*	0.5	0.9
122.5°	1.4	0.5	0.0	0.0	0.0	0.0	*0.0*	0.5	1.4
125°	1.4	0.5	0.0	0.0	0.0	0.0	*0.5*	0.5	1.4
127.5°	1.4	0.5	0.0	0.0	0.0	0.0	*0.5*	0.9	1.4
130°	1.4	0.9	0.5	0.0	0.5	0.5	*0.9*	0.9	1.4
132.5°	2.0	1.4	1.4	0.9	0.9	1.4	*1.4*	2.0	2.0
135°	2.4	2.0	2.0	1.4	2.0	2.0	*2.0*	2.0	2.4
137.5°	2.4	2.4	2.4	2.4	2.4	2.4	*2.4*	2.4	2.9
140°	3.4	2.9	2.9	2.9	2.9	2.9	*2.9*	3.4	3.4
142.5°	3.8	3.8	3.4	3.4	3.4	3.8	*3.8*	3.8	4.3
145°	4.3	4.3	3.8	3.8	3.8	4.3	*4.3*	4.8	4.8
147.5°	5.8	5.2	4.3	4.3	4.3	4.3	*4.8*	5.2	5.8
150°	6.2	5.8	4.8	4.8	4.8	4.8	*5.2*	6.2	6.7
152.5°	6.7	6.2	5.2	4.8	4.8	4.8	*5.8*	6.2	7.2
155°	7.2	6.7	5.8	4.8	4.8	5.2	*6.2*	7.2	7.6
157.5°	8.6	7.6	6.7	5.8	5.8	6.2	*7.2*	8.1	8.6
160°	9.6	8.6	7.6	6.7	6.7	7.2	*8.1*	9.0	9.6
162.5°	10.5	9.6	8.1	7.6	7.2	7.6	*8.6*	10.1	10.5
165°	11.0	10.1	9.0	8.1	8.1	8.1	*9.6*	10.5	11.0
167.5°	11.5	11.0	9.6	8.6	8.6	8.6	*10.1*	11.0	11.5
170°	11.9	11.5	10.1	9.0	8.6	9.0	*10.5*	11.5	11.9
172.5°	12.9	12.4	11.0	10.1	9.6	10.1	*11.5*	12.4	12.9
175°	14.3	13.4	12.4	11.0	10.5	11.0	*12.4*	13.4	14.3
177.5°	14.8	13.9	12.9	11.5	11.0	11.5	*12.9*	13.9	14.8
180°	12.9	12.9	12.9	12.9	12.9	12.9	*12.9*	12.9	12.9

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Scaled Data Report

TEST NUMBER: P1433802
CATALOG NUMBER: EHBR1-30-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	18.63	19.89	18.99	20.20	20.52	19.61	20.87	19.97	21.19	21.50
	3H	20.19	21.32	20.57	21.65	22.02	20.95	22.07	21.33	22.41	22.77
	4H	20.86	21.91	21.26	22.26	22.65	21.51	22.56	21.91	22.91	23.29
	6H	21.41	22.38	21.83	22.75	23.15	21.94	22.90	22.36	23.28	23.67
	8H	21.62	22.53	22.05	22.92	23.33	22.08	22.99	22.51	23.38	23.79
	12H	21.74	22.62	22.18	23.00	23.43	22.15	23.03	22.59	23.41	23.84
4H	2H	19.20	20.25	19.60	20.60	20.98	19.97	21.02	20.37	21.37	21.75
	3H	20.99	21.85	21.40	22.26	22.66	21.56	22.42	21.97	22.83	23.23
	4H	21.78	22.56	22.22	22.98	23.42	22.25	23.03	22.69	23.45	23.89
	6H	22.47	23.14	22.93	23.58	24.05	22.82	23.49	23.29	23.94	24.41
	8H	22.72	23.34	23.19	23.79	24.26	23.01	23.63	23.48	24.08	24.55
	12H	22.89	23.44	23.37	23.92	24.40	23.13	23.68	23.62	24.16	24.64
8H	4H	22.06	22.69	22.53	23.14	23.61	22.49	23.11	22.96	23.56	24.03
	6H	22.88	23.39	23.39	23.89	24.37	23.19	23.69	23.69	24.19	24.68
	8H	23.21	23.67	23.74	24.18	24.68	23.45	23.90	23.97	24.42	24.91
	12H	23.46	23.86	23.98	24.36	24.93	23.64	24.04	24.16	24.54	25.11
12H	4H	22.08	22.63	22.57	23.11	23.59	22.50	23.05	22.99	23.53	24.01
	6H	22.93	23.38	23.45	23.90	24.39	23.23	23.69	23.75	24.20	24.70
	8H	23.32	23.72	23.83	24.21	24.78	23.55	23.95	24.07	24.45	25.02

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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

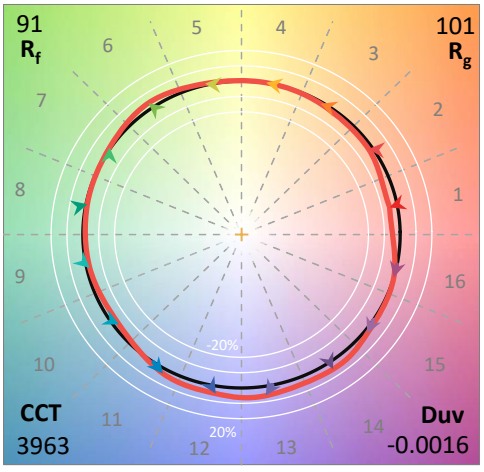
Test Information

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

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

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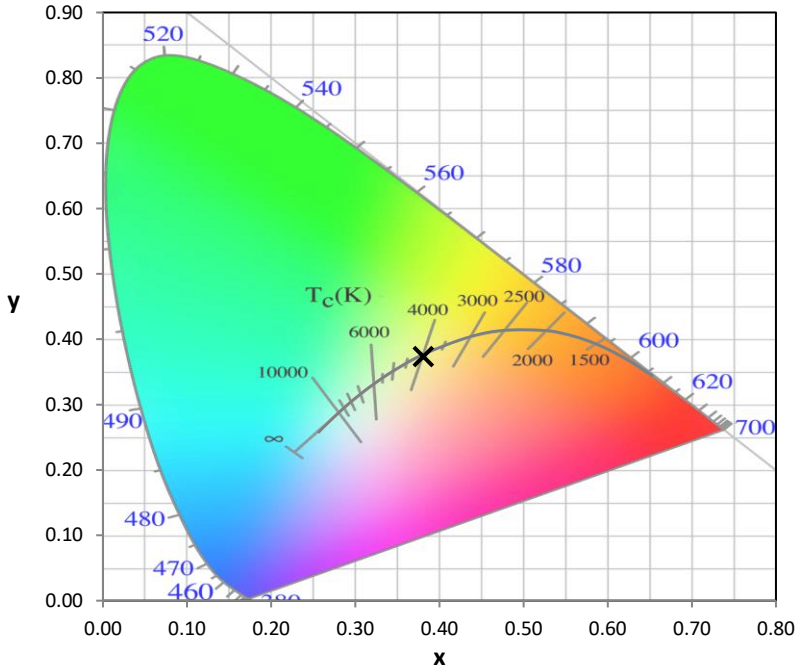
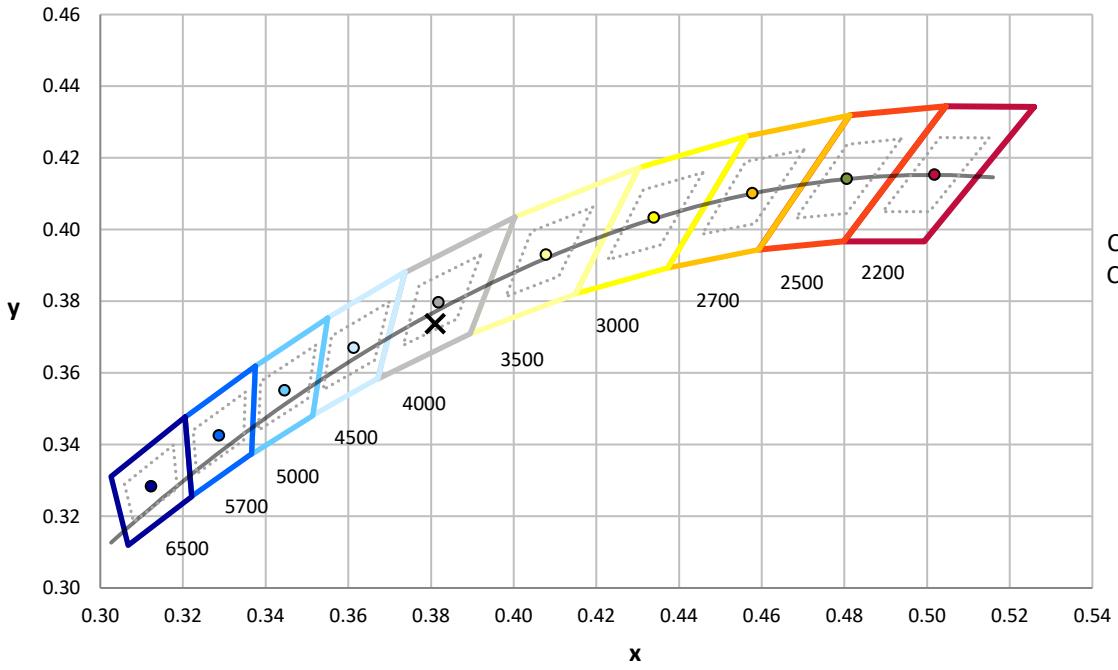
CIE 1931 Chromaticity Diagram



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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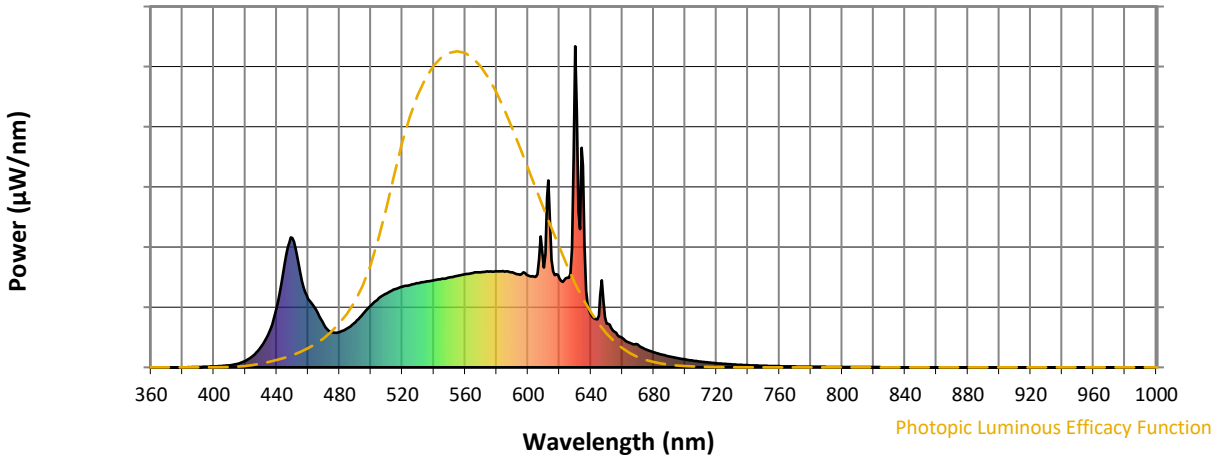
Photopic Flux vs. Wavelength



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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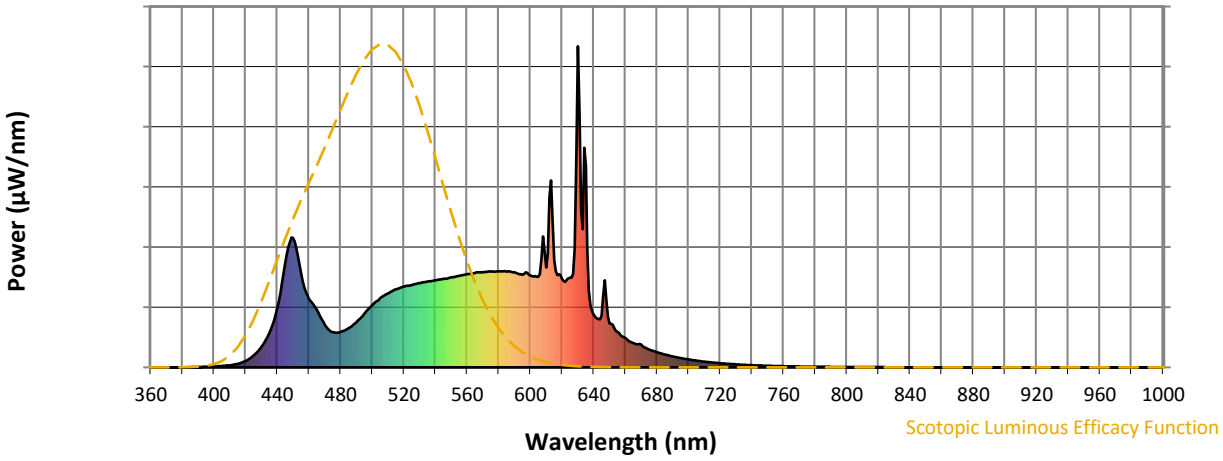
Scotopic Flux vs. Wavelength



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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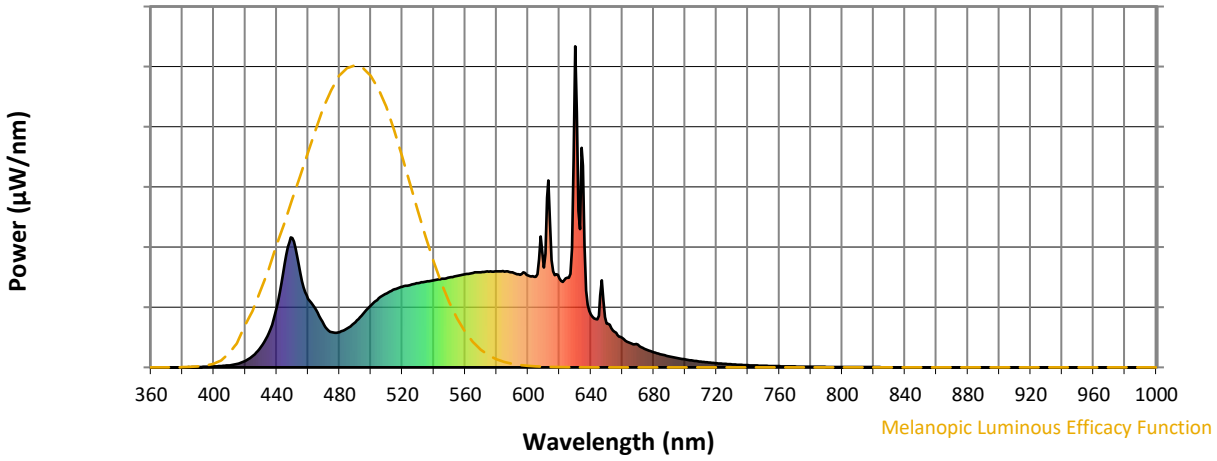
Melanopic Flux vs. Wavelength



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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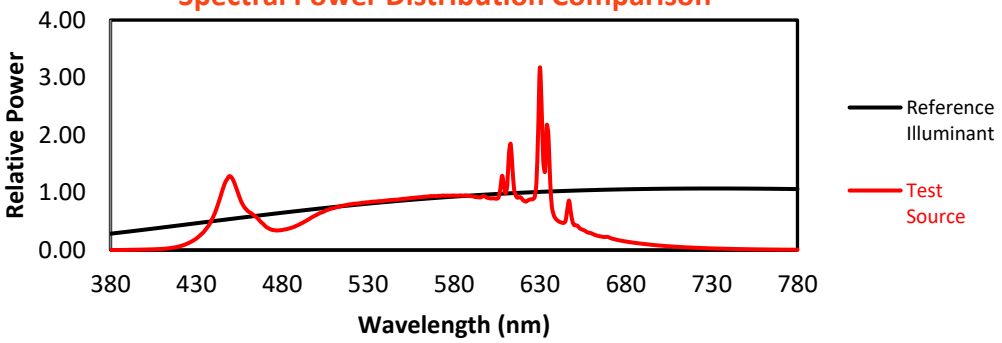
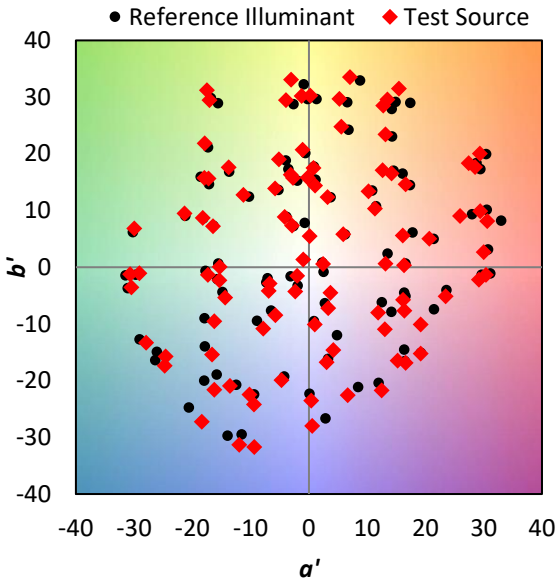
Summary

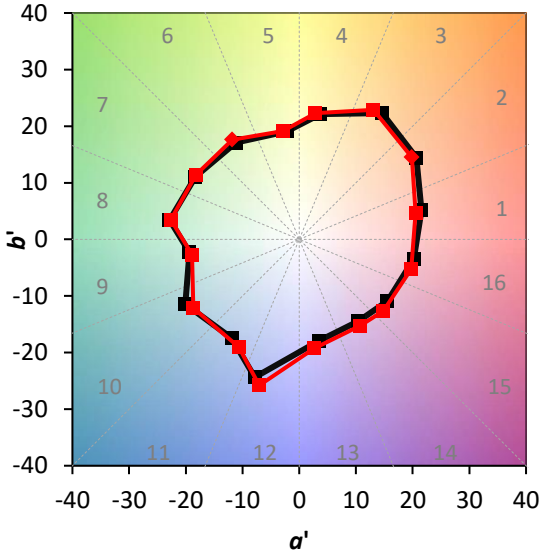
R_f = 90.7
R_g = 101
CIE R_a = 93.4
R_9 = 66.4

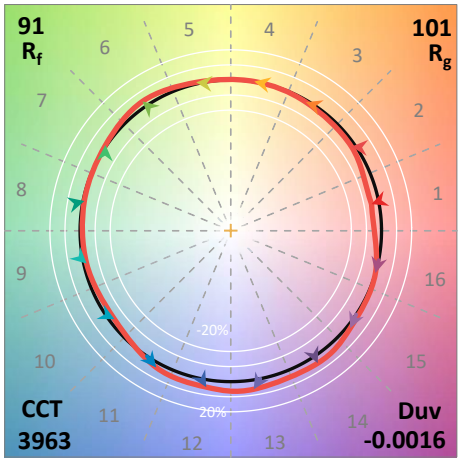
Spectral Power Distribution Comparison

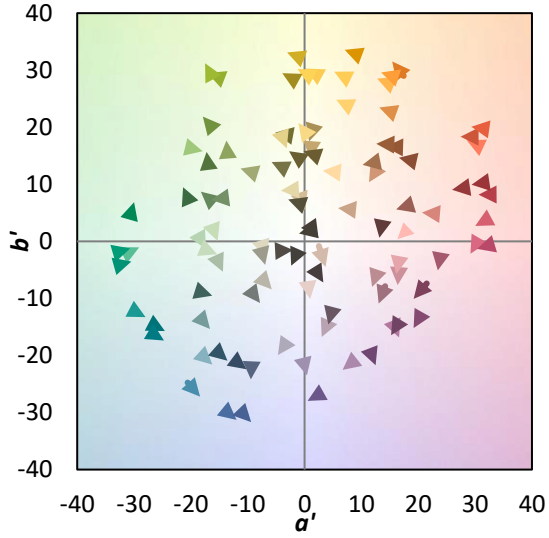


Color Vector Graphics









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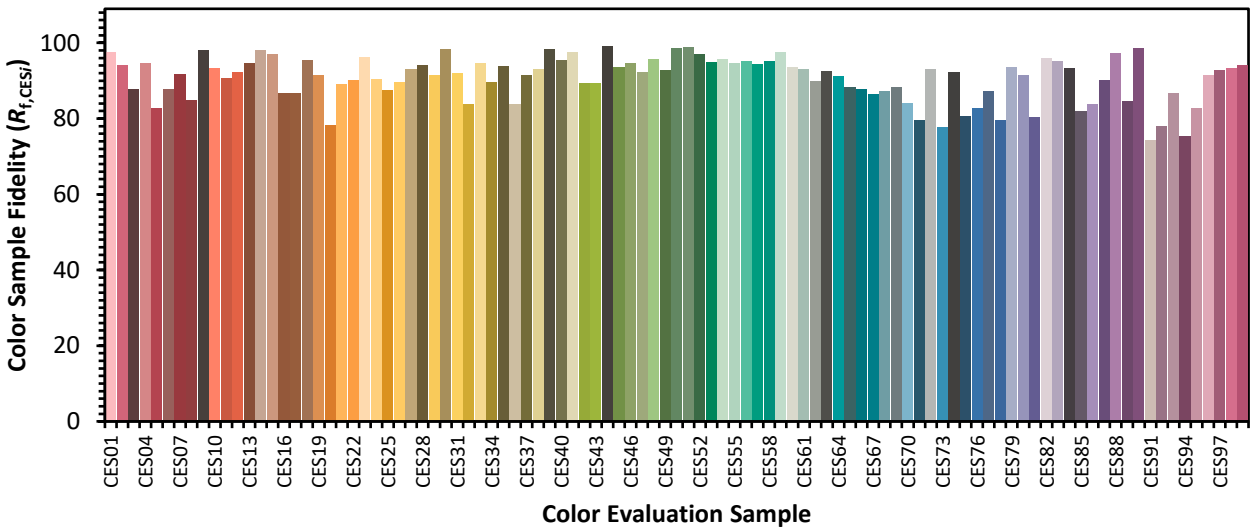
Individual Sample Fidelity Index ($R_{f,i}$)

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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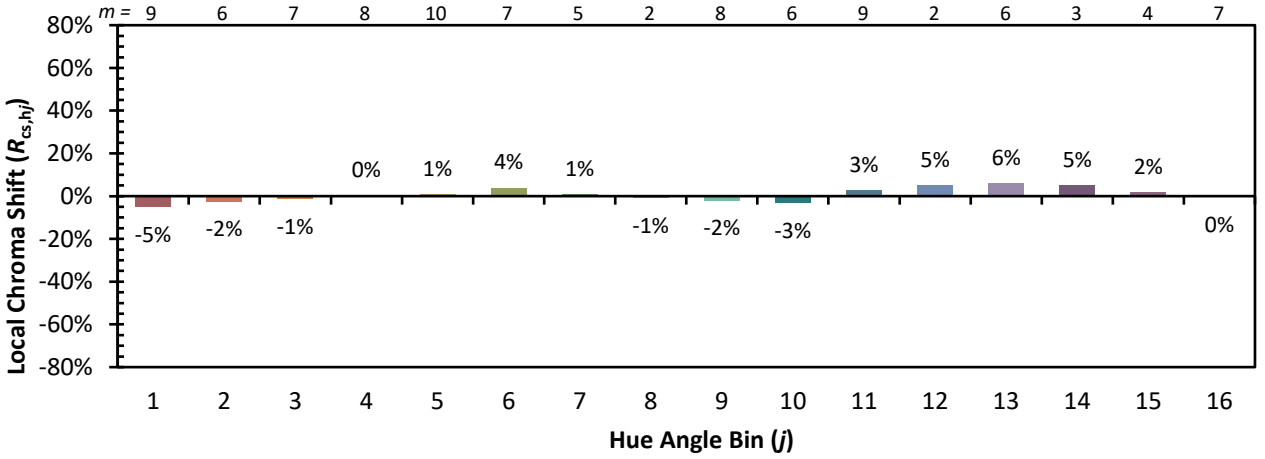
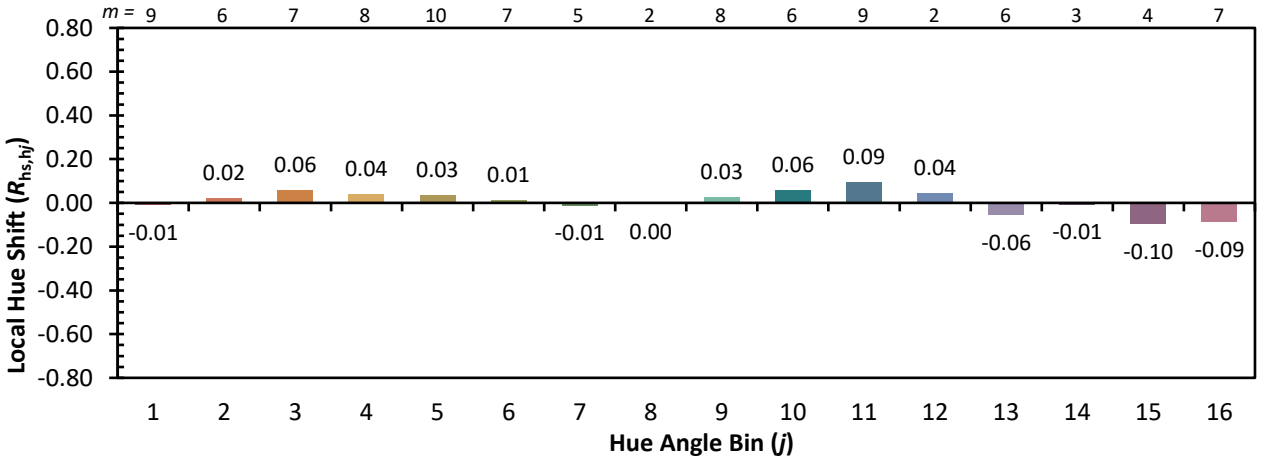
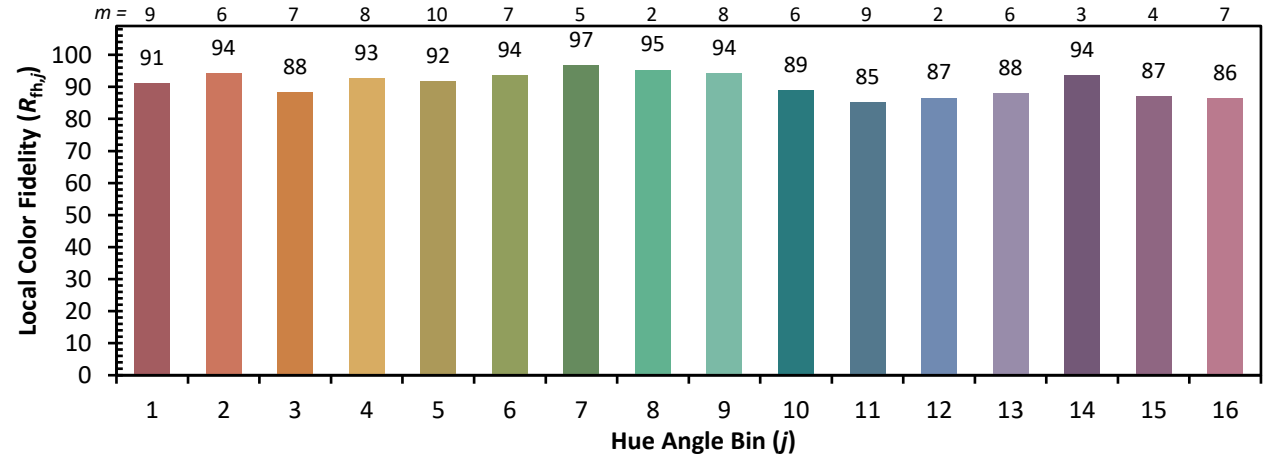
Color Rendition by Hue-Angle Bin







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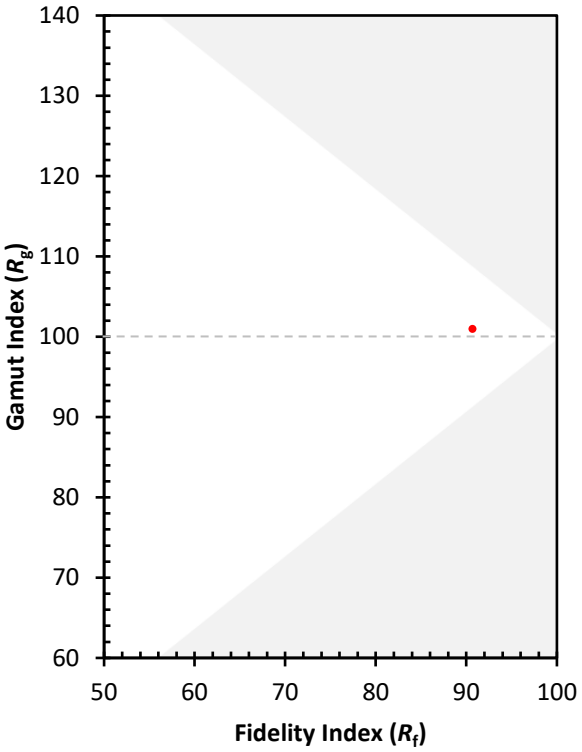
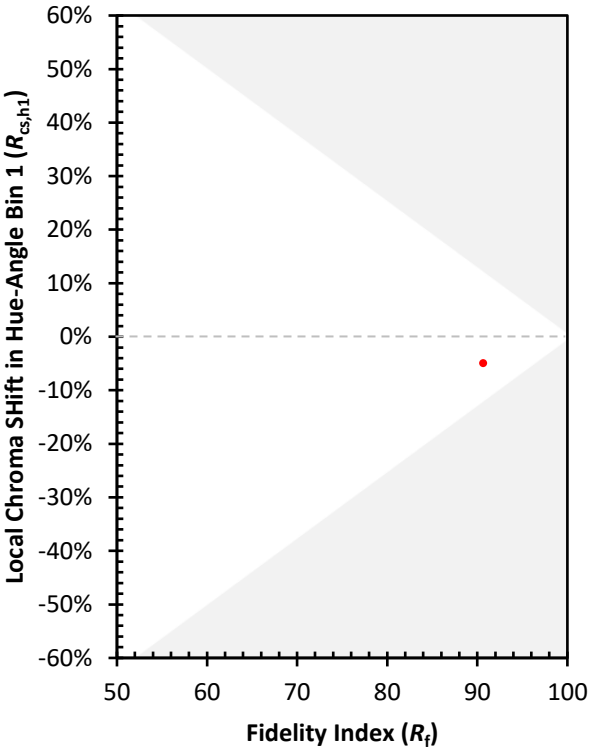
Measure Comparisons





(END OF REPORT)