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: P1432906

Luminaire Tested: EHBR1-24-UNV-A1-L850

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:	P1432906
	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:	EHBR1-24-UNV-A1-L850
Description:	Elevate Round Highbay at, 24000 lumens, 5000K 80CRI LEDs with A lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24290.3 lumens
Efficiency:	N/A
Efficacy:	189.3 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):	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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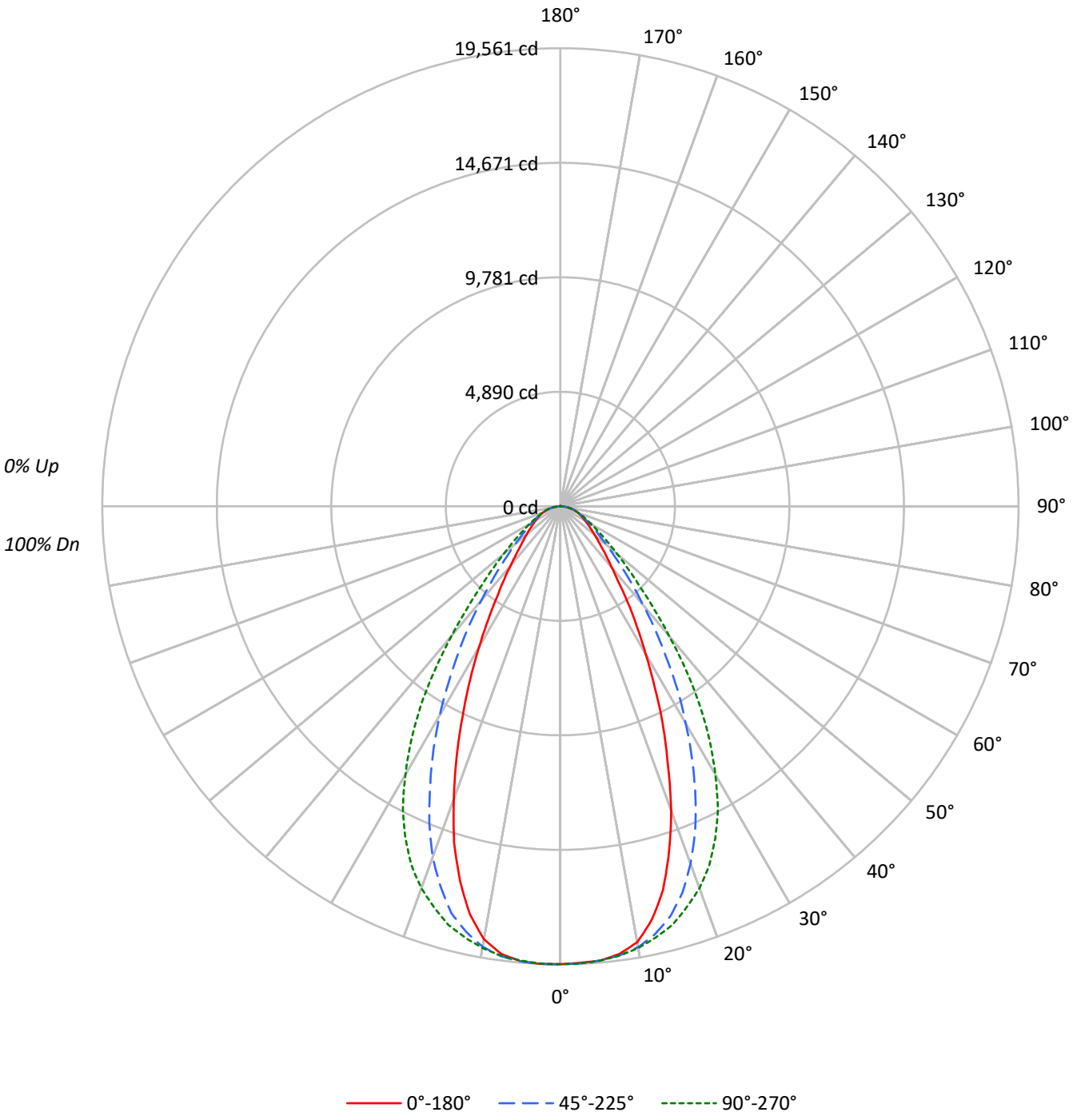
Scaled Data Report

TEST NUMBER: P1432906
CATALOG NUMBER: EHBR1-24-UNV-A1-L850

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°	91820	91820	91820	91820	91820
5°	91808	91794	91798	91960	91904
10°	90127	91178	91323	91065	89538
15°	82373	88120	89934	87413	80481
20°	69125	81185	86731	79656	66433
25°	53855	70718	81056	68136	51064
30°	39570	58052	71771	55849	37558
35°	28774	45137	59503	43193	26896
40°	20905	33665	44282	32244	20260
45°	16658	24907	31276	23828	16082
50°	14005	18962	22938	18338	13793
55°	12428	15215	17653	14961	12261
60°	11440	12961	14355	12881	11520
65°	10990	11745	12391	11781	11094
70°	10842	11100	11443	11161	10947
75°	10729	10662	10729	10692	10832
80°	10788	10012	9790	10166	10788
85°	9731	8249	8168	8384	10017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 32770 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1846.4	7.6
10°-20°	4962.5	20.4
20°-30°	6034.4	24.8
30°-40°	4915.5	20.2
40°-50°	2951.2	12.1
50°-60°	1698.5	7.0
60°-70°	1063.0	4.4
70°-80°	626.0	2.6
80°-90°	183.1	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°	1.3	0.0
140°-150°	2.2	0.0
150°-160°	2.5	0.0
160°-170°	2.2	0.0
170°-180°	0.9	0.0
0°-30°	12843.4	52.9
0°-40°	17758.8	73.1
0°-60°	22408.5	92.3
0°-90°	24280.6	100.0
90°-120°	0.3	0.0
90°-150°	4.1	0.0
90°-180°	10.0	0.0
0°-180°	24290.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19552	19552	19552	19552	19552	
5°	19476	19472	19473	19508	19496	1841
15°	16943	18125	18498	17980	16554	4661
25°	10394	13648	15643	13150	9855	4735
35°	5019	7873	10379	7534	4692	3175
45°	2508	3750	4709	3588	2422	1979
55°	1518	1858	2156	1827	1498	1372
65°	989	1057	1115	1060	998	983
75°	591	588	591	589	597	626
85°	181	153	152	156	186	193
90°	1	0	0	0	0	9
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	3	3	4	4	2
155°	6	5	4	5	7	3
165°	9	8	7	8	9	3
175°	12	11	9	11	12	1
180°	11	11	11	11	11	

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TEST NUMBER: P1432906
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19552.4	19552.4	19552.4	19552.4	19552.4	19552.4	*19552.4*	19552.4	19552.4
2.5°	*19509.5*	*19527.0*	*19534.4*	*19538.5*	*19543.0*	*19555.3*	*19560.6*	*19552.0*	*19559.4*
5°	19475.5	19476.7	19472.5	19491.0	19473.4	19485.7	*19507.8*	19499.1	19495.9
7.5°	19277.2	19318.2	19342.4	19348.5	19351.8	19366.9	*19382.4*	19294.4	19281.3
10°	18900.4	18968.9	19120.8	19164.2	19151.1	19175.7	*19097.0*	18866.8	18776.8
12.5°	18074.5	18314.9	18709.7	18885.3	18853.4	18875.1	*18607.2*	18121.6	17842.3
15°	16943.0	17295.6	18125.2	18471.7	18498.3	18471.7	*17979.8*	17033.5	16553.9
17.5°	15438.8	16090.0	17311.6	17983.9	17945.4	17958.2	*17024.4*	15625.5	15076.8
20°	13831.9	14526.0	16245.2	17366.9	17355.0	17283.7	*15939.3*	14094.3	13293.4
22.5°	12014.4	12909.7	15023.2	16607.9	16603.5	16484.8	*14617.7*	12422.3	11559.9
25°	10393.5	11271.6	13648.0	15678.4	15643.1	15508.1	*13149.7*	10754.3	9855.0
27.5°	8717.8	9630.7	12179.8	14589.0	14564.9	14417.5	*11746.1*	9195.3	8339.4
30°	7297.2	8131.8	10705.6	13390.4	13235.6	13218.8	*10299.4*	7751.7	6926.2
32.5°	6080.1	6795.6	9315.7	12136.9	11862.9	11941.1	*8857.5*	6544.5	5726.3
35°	5019.1	5649.3	7873.4	10687.2	10379.2	10480.4	*7534.3*	5370.0	4691.5
37.5°	4073.5	4679.6	6651.0	9277.2	8806.2	8997.1	*6370.4*	4484.6	3940.8
40°	3410.1	3890.8	5491.6	7730.0	7223.4	7534.3	*5259.8*	3740.5	3304.9
42.5°	2938.3	3252.0	4532.5	6252.9	5864.3	6084.7	*4335.2*	3127.1	2801.1
45°	2508.3	2758.5	3750.3	4934.3	4709.4	4913.8	*3587.8*	2666.4	2421.5
47.5°	2190.9	2383.8	3087.4	3984.6	3844.9	3909.7	*2996.4*	2326.9	2127.9
50°	1917.0	2066.0	2595.5	3216.0	3139.7	3179.5	*2510.0*	2024.6	1887.9
52.5°	1704.0	1813.3	2177.0	2643.1	2605.4	2611.5	*2139.0*	1781.0	1681.9
55°	1518.0	1594.3	1858.4	2165.1	2156.1	2157.7	*1827.3*	1578.3	1497.6
57.5°	1355.5	1418.5	1597.1	1818.6	1805.6	1808.4	*1582.4*	1401.7	1349.8
60°	1218.0	1260.1	1380.0	1536.9	1528.4	1524.6	*1371.5*	1244.5	1226.5
62.5°	1095.9	1122.9	1206.1	1317.5	1301.1	1304.7	*1205.6*	1124.1	1097.5
65°	989.0	998.4	1057.0	1125.7	1115.1	1124.1	*1060.2*	1004.5	998.4
67.5°	884.6	894.0	928.4	974.6	962.4	969.7	*929.2*	896.4	891.1
70°	789.6	789.2	808.4	833.4	833.4	834.6	*812.9*	793.2	797.3
72.5°	691.2	688.8	694.6	711.3	706.9	722.4	*699.5*	693.3	694.1
75°	591.3	584.4	587.6	596.3	591.3	599.5	*589.3*	597.0	597.0
77.5°	497.1	484.1	480.0	481.2	472.2	484.5	*486.9*	492.2	504.5
80°	398.9	380.4	370.2	369.8	362.0	369.8	*375.9*	387.0	398.9
82.5°	296.1	280.2	262.9	259.6	254.7	259.2	*267.4*	280.5	299.8
85°	180.6	163.8	153.1	147.4	151.6	151.6	*155.6*	174.1	185.9
87.5°	65.1	56.9	46.7	47.1	48.3	50.0	*52.0*	65.5	71.7
90°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.4
92.5°	0.4	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.4
95°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.4
97.5°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.4
100°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8
102.5°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8
105°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8
107.5°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8
110°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8

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Scaled Data Report

TEST NUMBER: P1432906
CATALOG NUMBER: EHBR1-24-UNV-A1-L850

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8
115°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8
117.5°	1.3	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.8
120°	0.8	0.0	0.0	0.0	0.0	0.0	*0.0*	0.4	0.8
122.5°	1.3	0.4	0.0	0.0	0.0	0.0	*0.0*	0.4	1.3
125°	1.3	0.4	0.0	0.0	0.0	0.0	*0.4*	0.4	1.3
127.5°	1.3	0.4	0.0	0.0	0.0	0.0	*0.4*	0.8	1.3
130°	1.3	0.8	0.4	0.0	0.4	0.4	*0.8*	0.8	1.3
132.5°	1.7	1.3	1.3	0.8	0.8	1.3	*1.3*	1.7	1.7
135°	2.1	1.7	1.7	1.3	1.7	1.7	*1.7*	1.7	2.1
137.5°	2.1	2.1	2.1	2.1	2.1	2.1	*2.1*	2.1	2.5
140°	2.8	2.5	2.5	2.5	2.5	2.5	*2.5*	2.8	2.8
142.5°	3.2	3.2	2.8	2.8	2.8	3.2	*3.2*	3.2	3.7
145°	3.7	3.7	3.2	3.2	3.2	3.7	*3.7*	4.1	4.1
147.5°	4.9	4.5	3.7	3.7	3.7	3.7	*4.1*	4.5	4.9
150°	5.3	4.9	4.1	4.1	4.1	4.1	*4.5*	5.3	5.7
152.5°	5.7	5.3	4.5	4.1	4.1	4.1	*4.9*	5.3	6.2
155°	6.2	5.7	4.9	4.1	4.1	4.5	*5.3*	6.2	6.6
157.5°	7.4	6.6	5.7	4.9	4.9	5.3	*6.2*	7.0	7.4
160°	8.2	7.4	6.6	5.7	5.7	6.2	*7.0*	7.8	8.2
162.5°	9.0	8.2	7.0	6.6	6.2	6.6	*7.4*	8.6	9.0
165°	9.4	8.6	7.8	7.0	7.0	7.0	*8.2*	9.0	9.4
167.5°	9.8	9.4	8.2	7.4	7.4	7.4	*8.6*	9.4	9.8
170°	10.2	9.8	8.6	7.8	7.4	7.8	*9.0*	9.8	10.2
172.5°	11.1	10.6	9.4	8.6	8.2	8.6	*9.8*	10.6	11.1
175°	12.3	11.5	10.6	9.4	9.0	9.4	*10.6*	11.5	12.3
177.5°	12.7	11.9	11.1	9.8	9.4	9.8	*11.1*	11.9	12.7
180°	11.1	11.1	11.1	11.1	11.1	11.1	*11.1*	11.1	11.1

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Scaled Data Report

TEST NUMBER: P1432906
CATALOG NUMBER: EHBR1-24-UNV-A1-L850

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	18.09	19.35	18.45	19.67	19.98	19.07	20.34	19.44	20.65	20.97
	3H	19.66	20.78	20.04	21.11	21.48	20.41	21.54	20.79	21.87	22.24
	4H	20.32	21.37	20.73	21.73	22.11	20.97	22.02	21.38	22.37	22.76
	6H	20.88	21.84	21.29	22.21	22.61	21.40	22.37	21.82	22.74	23.13
	8H	21.08	21.99	21.51	22.38	22.79	21.54	22.45	21.97	22.85	23.25
	12H	21.21	22.08	21.64	22.46	22.89	21.62	22.49	22.05	22.87	23.31
4H	2H	18.66	19.71	19.06	20.06	20.45	19.43	20.48	19.83	20.83	21.22
	3H	20.45	21.31	20.87	21.72	22.12	21.02	21.88	21.43	22.29	22.69
	4H	21.25	22.02	21.68	22.44	22.89	21.72	22.49	22.15	22.91	23.36
	6H	21.93	22.60	22.40	23.05	23.51	22.29	22.96	22.75	23.40	23.87
	8H	22.18	22.80	22.65	23.25	23.72	22.47	23.10	22.94	23.54	24.02
	12H	22.35	22.90	22.84	23.38	23.86	22.59	23.14	23.08	23.63	24.10
8H	4H	21.53	22.15	22.00	22.60	23.07	21.95	22.57	22.42	23.02	23.49
	6H	22.35	22.85	22.85	23.35	23.83	22.65	23.16	23.15	23.66	24.14
	8H	22.68	23.13	23.20	23.65	24.14	22.91	23.37	23.44	23.88	24.38
	12H	22.93	23.33	23.44	23.82	24.40	23.10	23.50	23.62	24.00	24.57
12H	4H	21.54	22.09	22.03	22.58	23.05	21.96	22.51	22.45	23.00	23.47
	6H	22.39	22.85	22.92	23.36	23.86	22.69	23.15	23.22	23.67	24.16
	8H	22.78	23.18	23.30	23.67	24.25	23.01	23.41	23.53	23.91	24.48

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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: SP1-2506-472-4

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L850-N

Data in this report applies to families of products including EHBR-60-L850-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

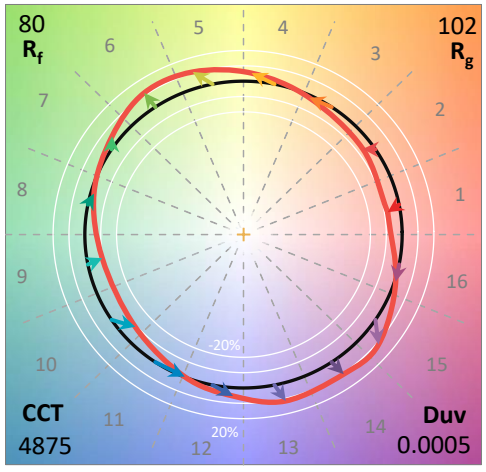
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-4
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-L850-N**
Description:	Elevate Round Highbay at, 60000 lumens, 5000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	4875
CIE u':	0.2124
CIE v':	0.4871
Duv:	0.0005
CIE x:	0.3488
CIE y:	0.3555
CIE z:	0.2957
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	573
Purity:	11.33556
Rf:	80
Rg:	102.3

CRI (Ra):	82.3				
R1:	85.0	R9:	43.9		
R2:	83.1	R10:	57.4		
R3:	78.8	R11:	83.1		
R4:	84.0	R12:	51.0		
R5:	83.0	R13:	83.4		
R6:	76.3	R14:	87.4		
R7:	86.8	R15:	83.4		
R8:	81.7				



Test Conditions

Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-4

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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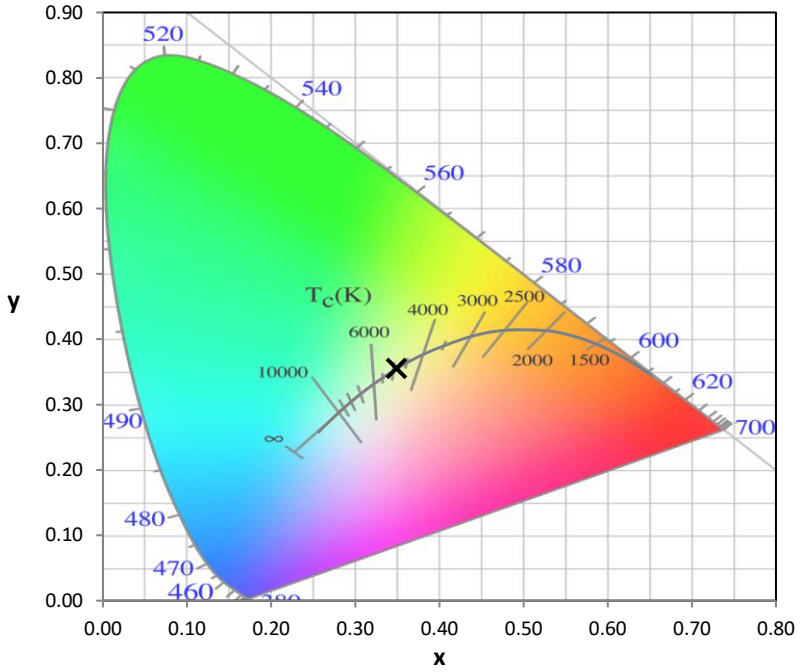
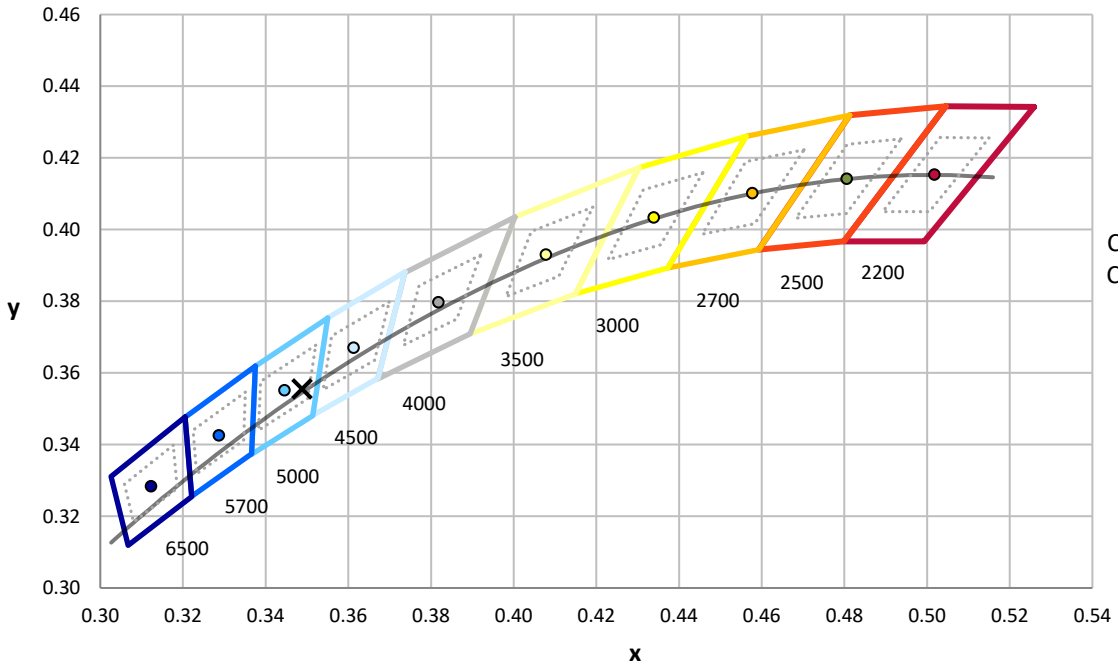
CIE 1931 Chromaticity Diagram



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



CCT = 4875K
CIE x = 0.3488
CIE y = 0.3555
Duv = 0.0005

Point lies inside the ANSI 5000K 4-step quadrangle

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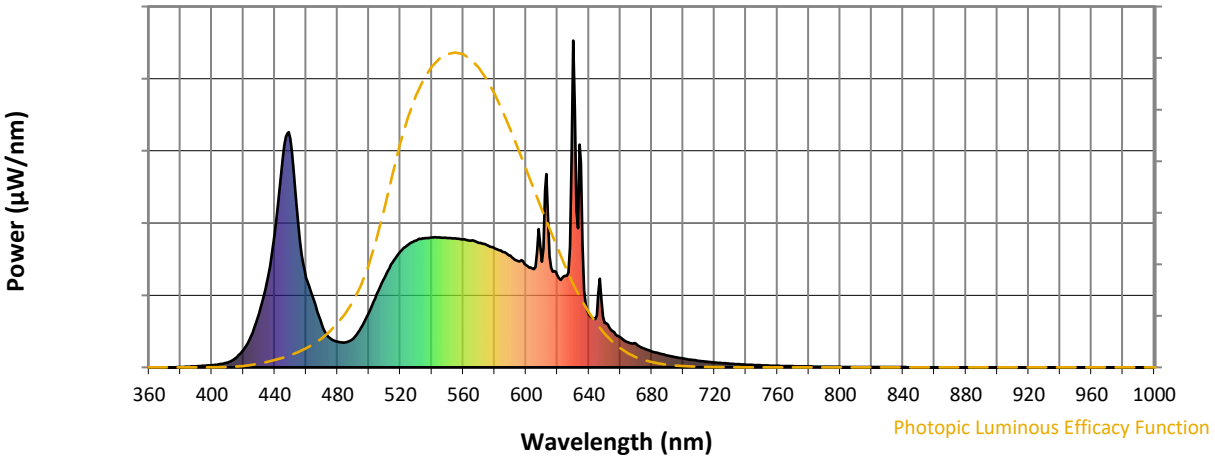
Photopic Flux vs. Wavelength



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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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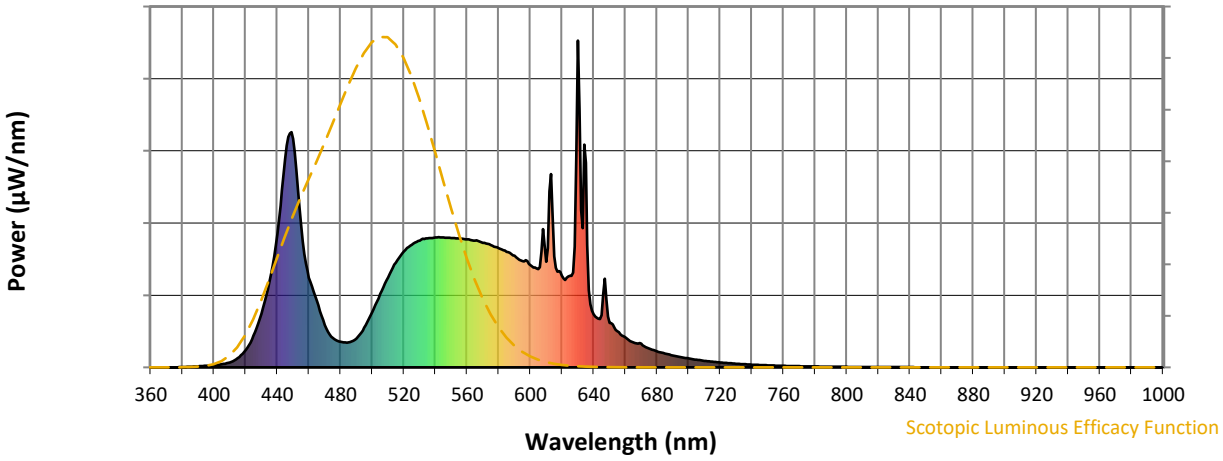
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.82**

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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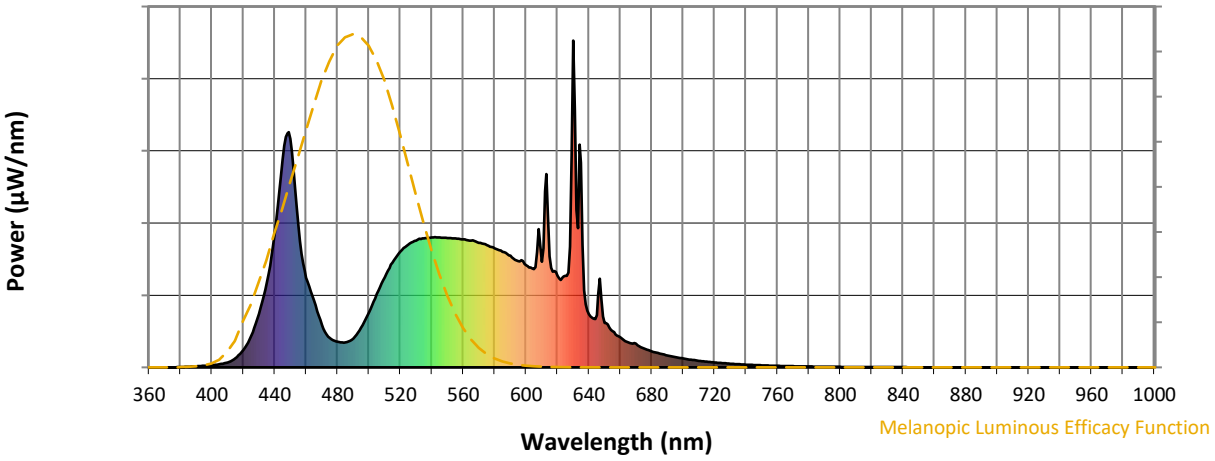
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.71**

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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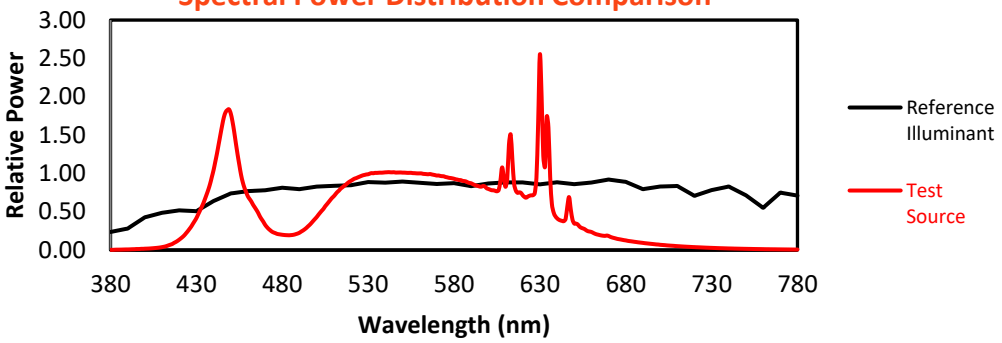
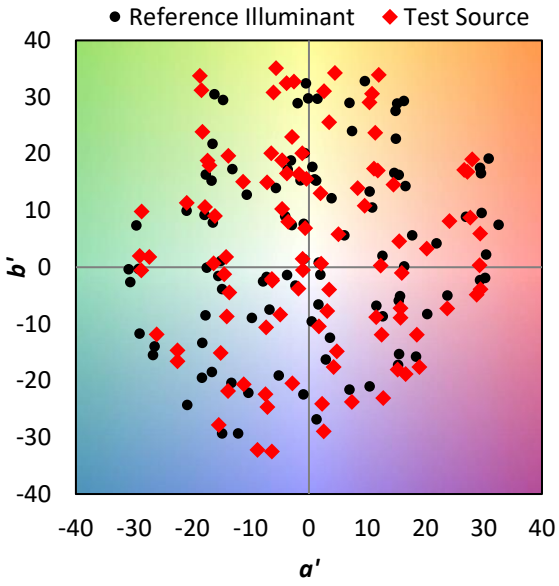
Summary

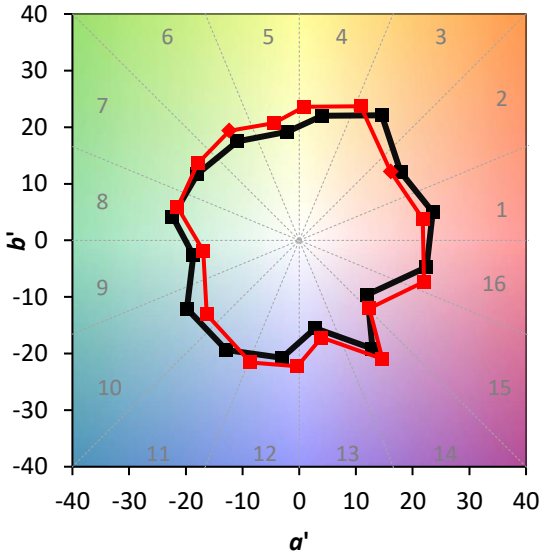
R_f = 80
R_g = 102.3
CIE R_a = 82.3
R_9 = 43.9

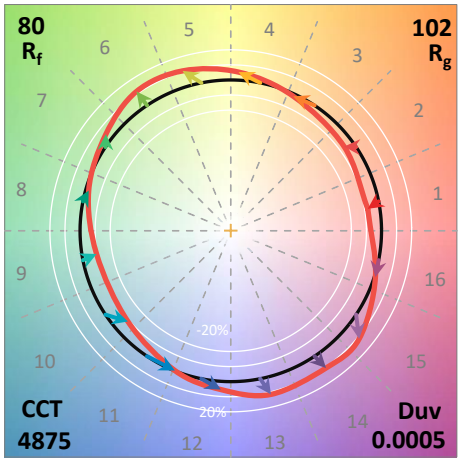
Spectral Power Distribution Comparison

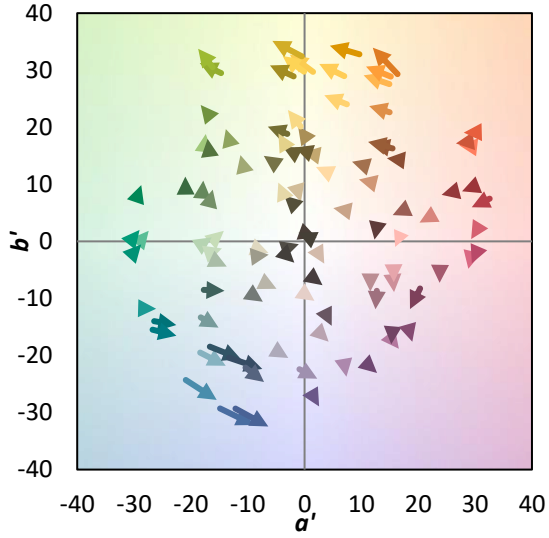


Color Vector Graphics









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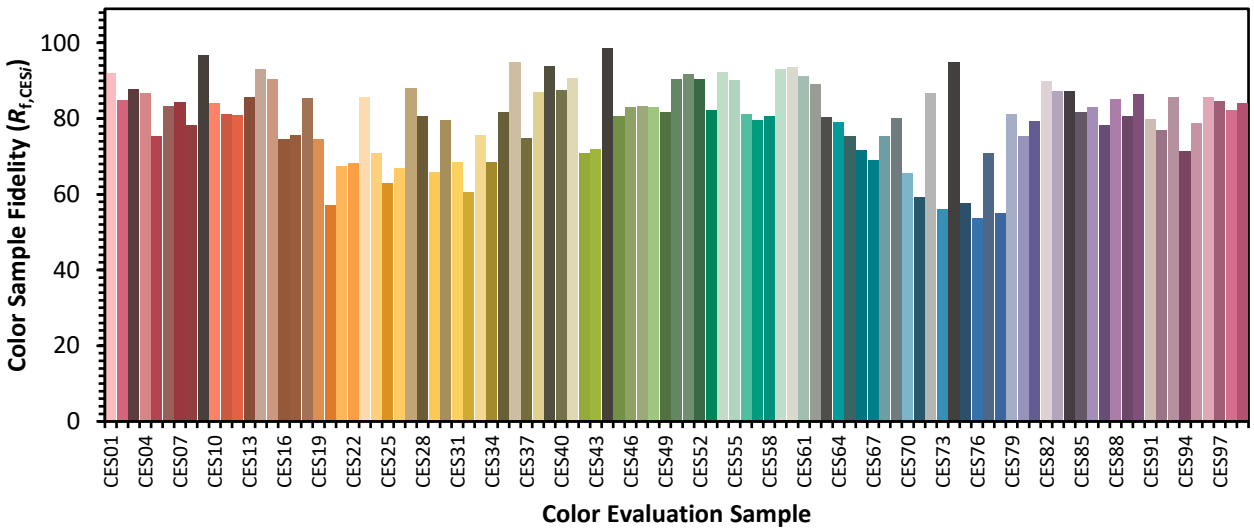
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 67	CES51 = 92	CES76 = 54
CES02 = 60	CES27 = 88	CES52 = 91	CES77 = 71
CES03 = 31	CES28 = 81	CES53 = 82	CES78 = 55
CES04 = 69	CES29 = 66	CES54 = 92	CES79 = 81
CES05 = 47	CES30 = 80	CES55 = 90	CES80 = 75
CES06 = 50	CES31 = 69	CES56 = 81	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 80	CES82 = 90
CES08 = 39	CES33 = 76	CES58 = 81	CES83 = 87
CES09 = 29	CES34 = 68	CES59 = 93	CES84 = 87
CES10 = 73	CES35 = 82	CES60 = 94	CES85 = 82
CES11 = 56	CES36 = 95	CES61 = 91	CES86 = 83
CES12 = 62	CES37 = 75	CES62 = 89	CES87 = 78
CES13 = 42	CES38 = 87	CES63 = 80	CES88 = 85
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 81
CES15 = 71	CES40 = 87	CES65 = 75	CES90 = 86
CES16 = 46	CES41 = 91	CES66 = 72	CES91 = 80
CES17 = 48	CES42 = 71	CES67 = 69	CES92 = 77
CES18 = 56	CES43 = 72	CES68 = 75	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 80	CES94 = 71
CES20 = 65	CES45 = 81	CES70 = 66	CES95 = 79
CES21 = 85	CES46 = 83	CES71 = 59	CES96 = 86
CES22 = 77	CES47 = 83	CES72 = 87	CES97 = 85
CES23 = 91	CES48 = 83	CES73 = 56	CES98 = 82
CES24 = 90	CES49 = 82	CES74 = 95	CES99 = 84
CES25 = 71	CES50 = 91	CES75 = 58	



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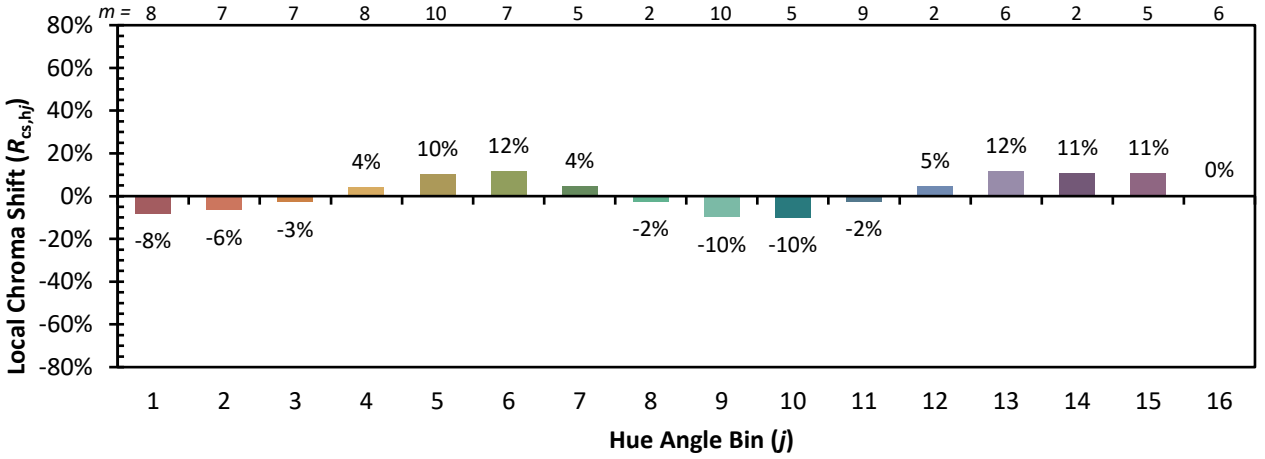
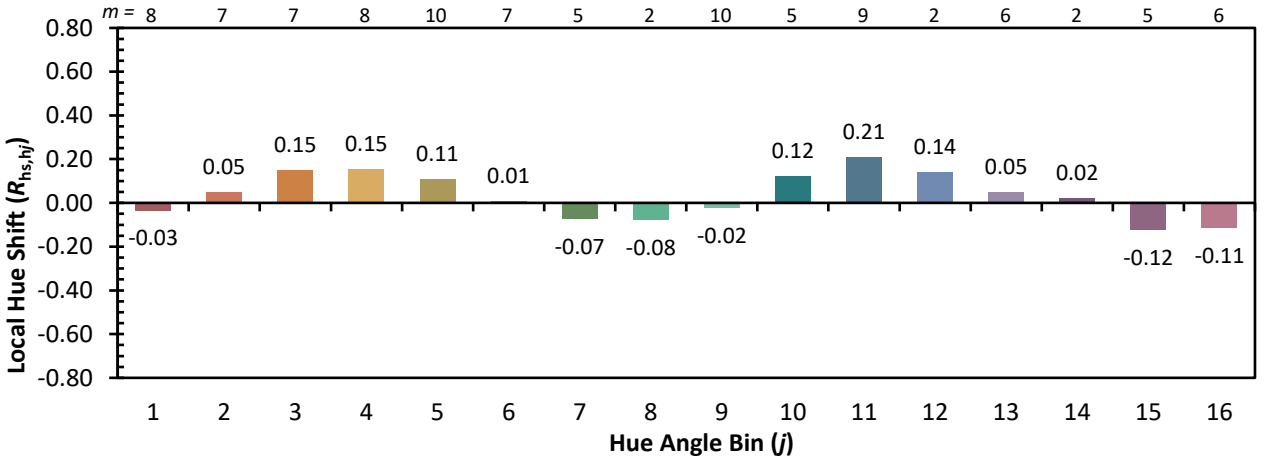
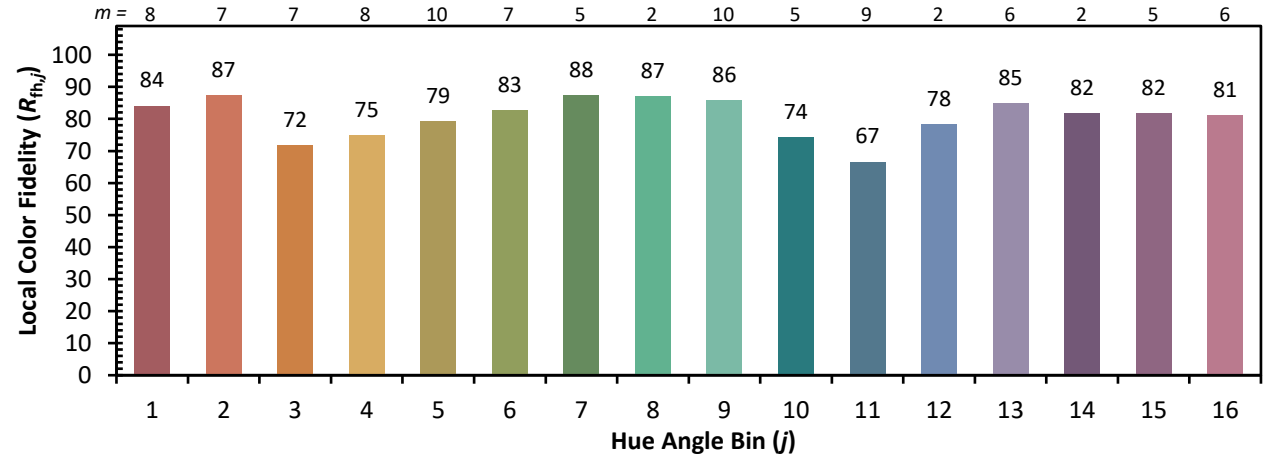
Color Rendition by Hue-Angle Bin







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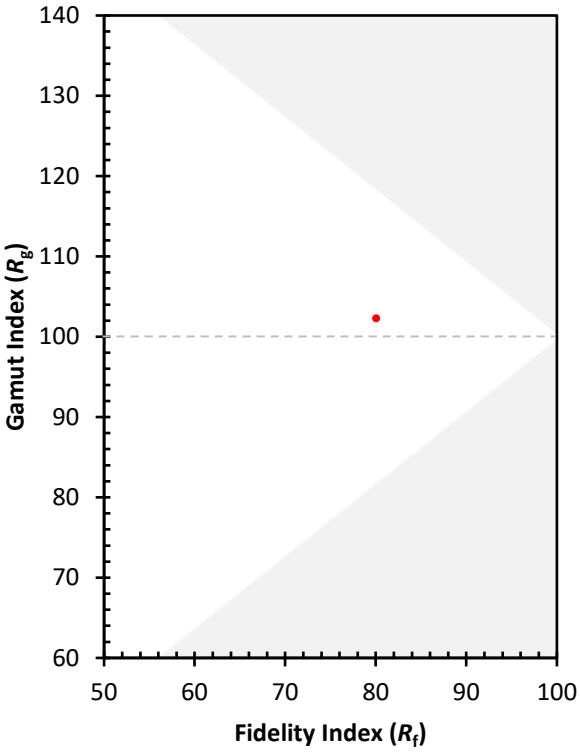
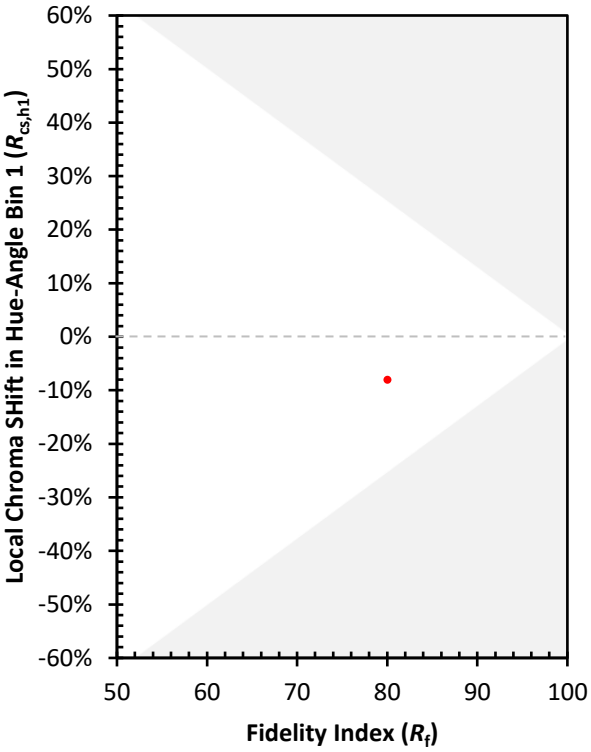
Measure Comparisons





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