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: P1432970

Luminaire Tested: EHBR1-36-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:	P1432970
	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-L850
Description:	Elevate Round Highbay at, 36000 lumens, 5000K 80CRI LEDs with A lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35365.7 lumens
Efficiency:	N/A
Efficacy:	184.8 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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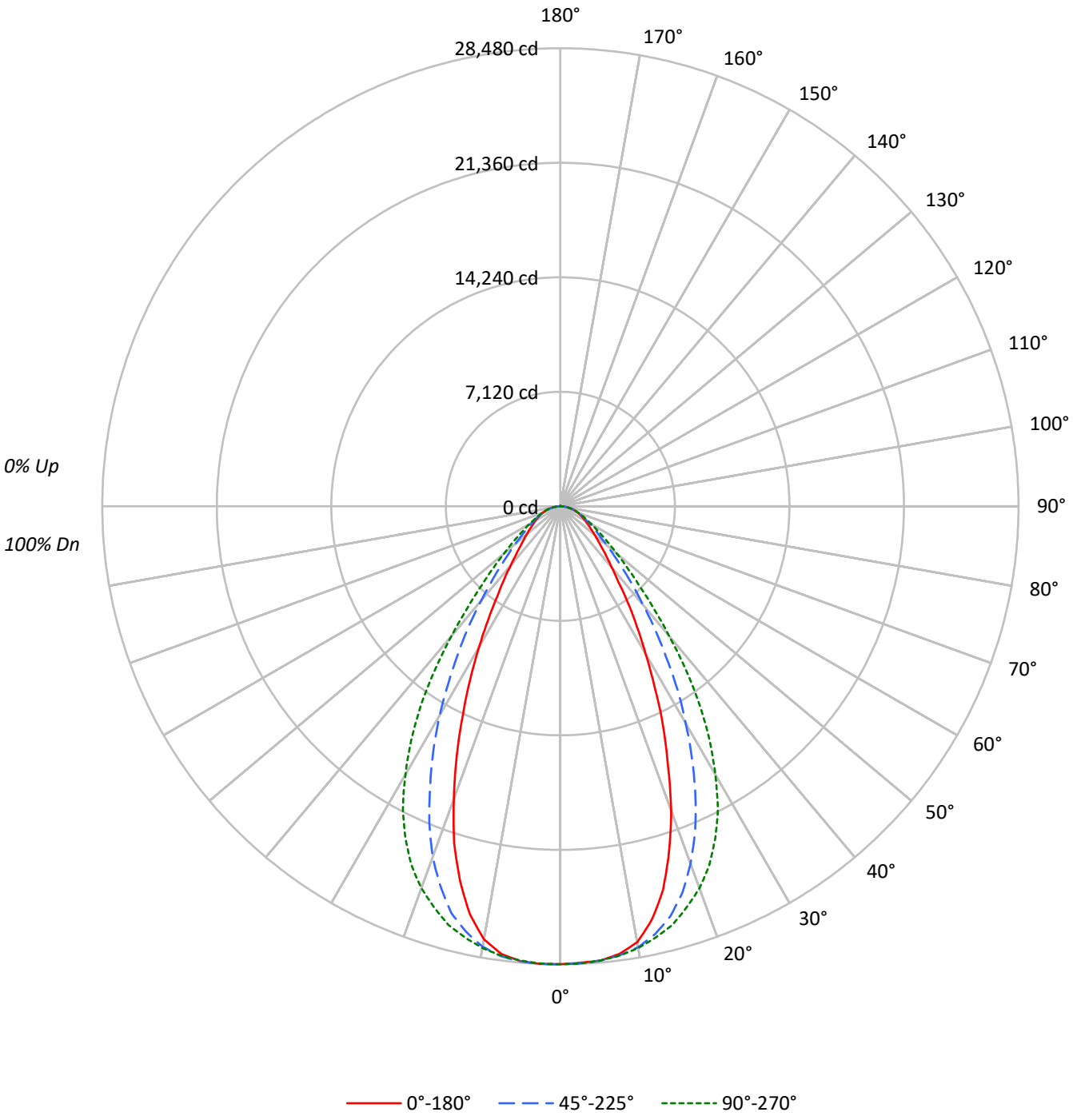
Scaled Data Report

TEST NUMBER: P1432970
CATALOG NUMBER: EHBR1-36-UNV-A1-L850

Luminous Intensity Polar Plot



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TEST NUMBER: P1432970
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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°	133686	133686	133686	133686	133686
5°	133669	133648	133655	133891	133809
10°	131222	132752	132963	132587	130364
15°	119931	128300	130941	127271	117178
20°	100642	118202	126277	115976	96724
25°	78411	102962	118014	99203	74348
30°	57612	84521	104496	81314	54682
35°	41893	65718	86633	62887	39158
40°	30436	49016	64473	46947	29497
45°	24254	36264	45537	34692	23414
50°	20391	27609	33398	26698	20082
55°	18097	22153	25702	21783	17852
60°	16654	18872	20899	18754	16772
65°	16001	17100	18040	17153	16152
70°	15785	16161	16659	16251	15940
75°	15622	15524	15622	15568	15773
80°	15704	14577	14255	14801	15704
85°	14171	12016	11886	12210	14586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 47712 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2688.3	7.6
10°-20°	7225.3	20.4
20°-30°	8785.9	24.8
30°-40°	7156.7	20.2
40°-50°	4296.9	12.1
50°-60°	2472.9	7.0
60°-70°	1547.6	4.4
70°-80°	911.5	2.6
80°-90°	266.6	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°	3.6	0.0
160°-170°	3.2	0.0
170°-180°	1.4	0.0
0°-30°	18699.4	52.9
0°-40°	25856.1	73.1
0°-60°	32625.9	92.3
0°-90°	35351.6	100.0
90°-120°	0.4	0.0
90°-150°	5.9	0.0
90°-180°	14.0	0.0
0°-180°	35365.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28468	28468	28468	28468	28468	
5°	28356	28351	28352	28403	28385	2680
15°	24668	26390	26933	26178	24102	6787
25°	15133	19871	22776	19145	14349	6895
35°	7308	11463	15112	10970	6830	4623
45°	3652	5460	6857	5224	3526	2881
55°	2210	2706	3139	2660	2180	1998
65°	1440	1539	1624	1544	1454	1432
75°	861	856	861	858	869	912
85°	263	223	221	227	271	281
90°	1	0	0	0	1	13
95°	1	0	0	0	1	1
105°	1	0	0	0	1	1
115°	1	0	0	0	1	1
125°	2	0	0	1	2	2
135°	3	2	2	2	3	2
145°	5	5	5	5	6	4
155°	9	7	6	8	10	4
165°	14	11	10	12	14	4
175°	18	16	13	16	18	2
180°	16	16	16	16	16	

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TEST NUMBER: P1432970
CATALOG NUMBER: EHBR1-36-UNV-A1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	28467.5	28467.5	28467.5	28467.5	28467.5	28467.5	*28467.5*	28467.5	28467.5
2.5°	*28405.0*	*28430.6*	*28441.3*	*28447.3*	*28453.9*	*28471.8*	*28479.5*	*28467.0*	*28477.7*
5°	28355.5	28357.2	28351.2	28378.2	28352.5	28370.4	*28402.6*	28390.0	28385.2
7.5°	28066.9	28126.5	28161.7	28170.6	28175.4	28197.4	*28220.1*	28091.9	28072.9
10°	27518.3	27618.0	27839.1	27902.3	27883.3	27919.0	*27804.5*	27469.4	27338.3
12.5°	26315.7	26665.7	27240.5	27496.2	27449.8	27481.4	*27091.4*	26384.3	25977.6
15°	24668.3	25181.7	26389.7	26894.1	26932.8	26894.1	*26178.0*	24800.0	24101.9
17.5°	22478.3	23426.4	25204.9	26184.0	26127.9	26146.4	*24787.0*	22750.2	21951.3
20°	20138.6	21149.3	23652.3	25285.4	25268.1	25164.4	*23206.9*	20520.8	19354.6
22.5°	17492.5	18795.9	21873.2	24180.6	24174.0	24001.1	*21282.8*	18086.4	16830.7
25°	15132.6	16411.0	19870.9	22827.1	22775.8	22579.0	*19145.3*	15657.9	14348.6
27.5°	12692.8	14021.8	17733.5	21241.2	21205.9	20991.3	*17102.0*	13388.0	12141.8
30°	10624.5	11839.6	15586.9	19495.9	19270.6	19246.1	*14995.5*	11286.2	10084.2
32.5°	8852.4	9894.0	13563.3	17670.8	17271.9	17385.8	*12896.1*	9528.5	8337.3
35°	7307.5	8225.2	11463.3	15560.1	15111.7	15259.0	*10969.6*	7818.5	6830.5
37.5°	5930.8	6813.2	9683.5	13507.2	12821.6	13099.5	*9275.2*	6529.4	5737.6
40°	4964.9	5664.9	7995.6	11254.7	10517.1	10969.6	*7658.1*	5446.1	4811.7
42.5°	4278.0	4734.8	6599.2	9104.1	8538.2	8859.0	*6311.8*	4552.9	4078.3
45°	3652.0	4016.3	5460.4	7184.1	6856.7	7154.3	*5223.7*	3882.1	3525.6
47.5°	3189.9	3470.8	4495.1	5801.5	5598.1	5692.3	*4362.7*	3387.9	3098.1
50°	2791.0	3008.0	3779.0	4682.3	4571.4	4629.2	*3654.4*	2947.8	2748.7
52.5°	2481.0	2640.1	3169.6	3848.2	3793.2	3802.2	*3114.2*	2593.1	2448.8
55°	2210.3	2321.2	2705.7	3152.3	3139.2	3141.6	*2660.5*	2297.9	2180.4
57.5°	1973.5	2065.4	2325.3	2647.9	2628.8	2633.0	*2303.9*	2040.9	1965.2
60°	1773.2	1834.6	2009.3	2237.7	2225.2	2219.8	*1996.8*	1812.0	1785.7
62.5°	1595.5	1634.9	1756.0	1918.1	1894.3	1899.7	*1755.4*	1636.7	1597.9
65°	1440.0	1453.6	1538.9	1639.1	1623.5	1636.7	*1543.7*	1462.5	1453.6
67.5°	1287.9	1301.5	1351.6	1419.0	1401.2	1411.9	*1352.8*	1305.2	1297.4
70°	1149.6	1149.0	1177.0	1213.3	1213.3	1215.1	*1183.6*	1154.9	1160.9
72.5°	1006.5	1002.8	1011.2	1035.6	1029.2	1051.7	*1018.4*	1009.4	1010.6
75°	861.0	850.9	855.6	868.2	861.0	872.9	*858.0*	869.3	869.3
77.5°	723.9	704.8	698.8	700.6	687.5	705.4	*708.9*	716.7	734.6
80°	580.7	553.9	539.0	538.4	527.1	538.4	*547.3*	563.4	580.7
82.5°	431.1	407.9	382.8	378.0	370.8	377.4	*389.4*	408.4	436.4
85°	263.0	238.5	223.0	214.6	220.6	220.6	*226.6*	253.4	270.7
87.5°	94.8	82.9	68.0	68.6	70.3	72.8	*75.7*	95.4	104.3
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: P1432970
CATALOG NUMBER: EHBR1-36-UNV-A1-L850

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°	2.9	2.4	2.4	1.8	2.4	2.4	*2.4*	2.4	2.9
137.5°	2.9	2.9	2.9	2.9	2.9	2.9	*2.9*	2.9	3.5
140°	4.1	3.5	3.5	3.5	3.5	3.5	*3.5*	4.1	4.1
142.5°	4.8	4.8	4.1	4.1	4.1	4.8	*4.8*	4.8	5.4
145°	5.4	5.4	4.8	4.8	4.8	5.4	*5.4*	6.0	6.0
147.5°	7.2	6.6	5.4	5.4	5.4	5.4	*6.0*	6.6	7.2
150°	7.8	7.2	6.0	6.0	6.0	6.0	*6.6*	7.8	8.3
152.5°	8.3	7.8	6.6	6.0	6.0	6.0	*7.2*	7.8	8.9
155°	8.9	8.3	7.2	6.0	6.0	6.6	*7.8*	8.9	9.5
157.5°	10.7	9.5	8.3	7.2	7.2	7.8	*8.9*	10.1	10.7
160°	11.9	10.7	9.5	8.3	8.3	8.9	*10.1*	11.3	11.9
162.5°	13.2	11.9	10.1	9.5	8.9	9.5	*10.7*	12.5	13.2
165°	13.8	12.5	11.3	10.1	10.1	10.1	*11.9*	13.2	13.8
167.5°	14.3	13.8	11.9	10.7	10.7	10.7	*12.5*	13.8	14.3
170°	14.9	14.3	12.5	11.3	10.7	11.3	*13.2*	14.3	14.9
172.5°	16.1	15.5	13.8	12.5	11.9	12.5	*14.3*	15.5	16.1
175°	17.9	16.7	15.5	13.8	13.2	13.8	*15.5*	16.7	17.9
177.5°	18.5	17.3	16.1	14.3	13.8	14.3	*16.1*	17.3	18.5
180°	16.1	16.1	16.1	16.1	16.1	16.1	*16.1*	16.1	16.1

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Scaled Data Report

TEST NUMBER: P1432970
CATALOG NUMBER: EHBR1-36-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	19.39	20.66	19.76	20.97	21.29	20.38	21.64	20.74	21.95	22.27
	3H	20.96	22.09	21.34	22.42	22.78	21.72	22.84	22.10	23.17	23.54
	4H	21.63	22.68	22.03	23.03	23.42	22.28	23.33	22.68	23.68	24.06
	6H	22.18	23.15	22.60	23.52	23.92	22.71	23.67	23.12	24.04	24.44
	8H	22.38	23.30	22.82	23.69	24.10	22.85	23.76	23.28	24.15	24.56
	12H	22.51	23.38	22.95	23.77	24.20	22.92	23.80	23.36	24.18	24.61
4H	2H	19.97	21.02	20.37	21.37	21.75	20.74	21.78	21.14	22.14	22.52
	3H	21.76	22.62	22.17	23.03	23.43	22.33	23.19	22.74	23.59	24.00
	4H	22.55	23.32	22.99	23.75	24.19	23.02	23.80	23.46	24.22	24.66
	6H	23.24	23.90	23.70	24.35	24.82	23.59	24.26	24.06	24.71	25.18
	8H	23.48	24.11	23.95	24.56	25.03	23.78	24.40	24.25	24.85	25.32
	12H	23.65	24.20	24.14	24.69	25.16	23.90	24.45	24.38	24.93	25.41
8H	4H	22.83	23.46	23.30	23.90	24.38	23.25	23.88	23.73	24.33	24.80
	6H	23.65	24.16	24.15	24.66	25.14	23.96	24.46	24.46	24.96	25.44
	8H	23.98	24.44	24.50	24.95	25.45	24.22	24.67	24.74	25.19	25.68
	12H	24.23	24.63	24.75	25.13	25.70	24.41	24.81	24.93	25.31	25.88
12H	4H	22.85	23.40	23.34	23.88	24.36	23.27	23.82	23.76	24.30	24.78
	6H	23.70	24.15	24.22	24.67	25.16	24.00	24.46	24.52	24.97	25.47
	8H	24.08	24.48	24.60	24.98	25.55	24.32	24.72	24.83	25.21	25.79

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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

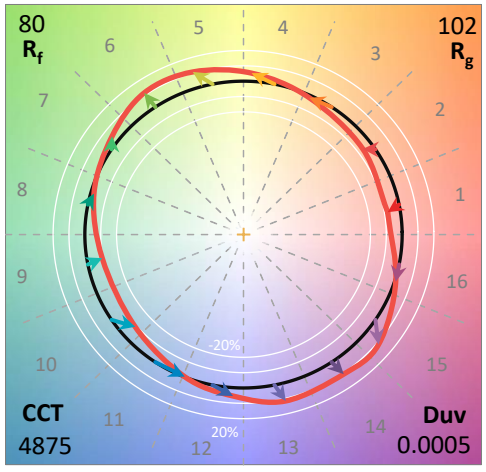
Test Information

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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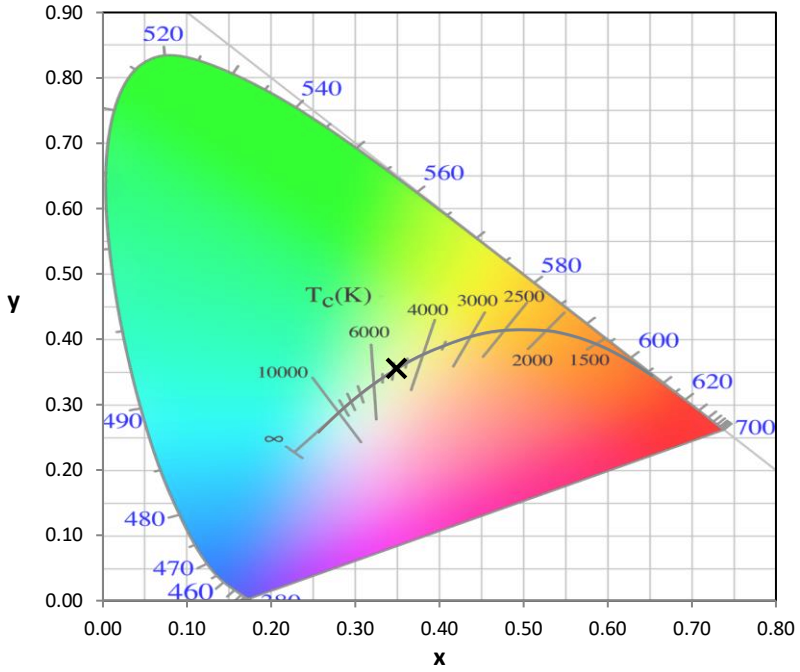
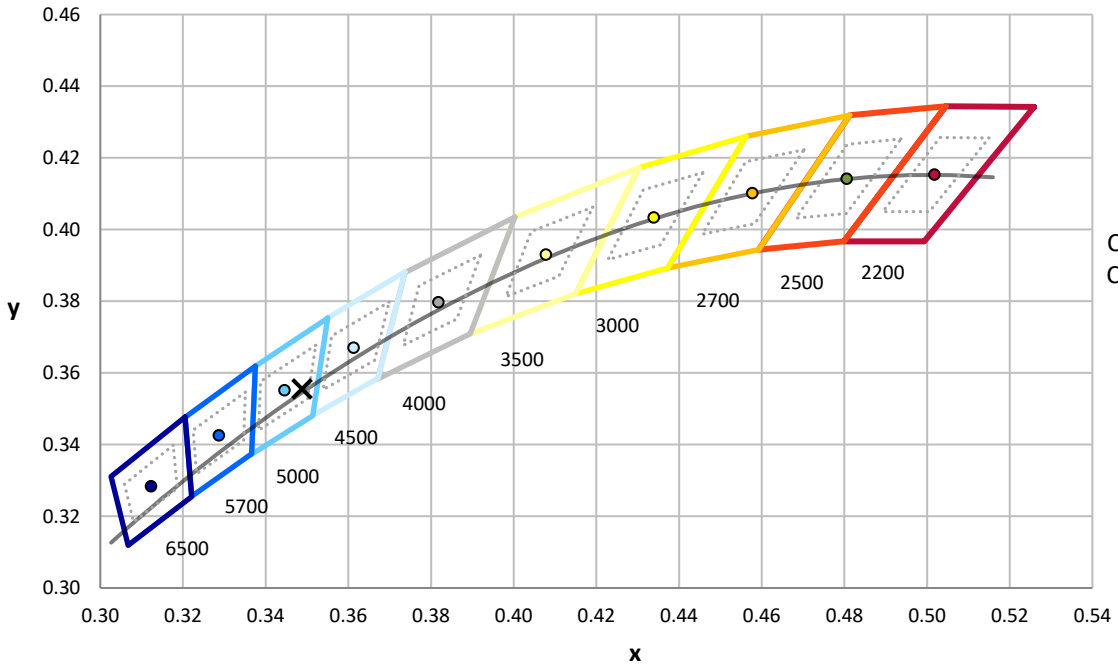
CIE 1931 Chromaticity Diagram



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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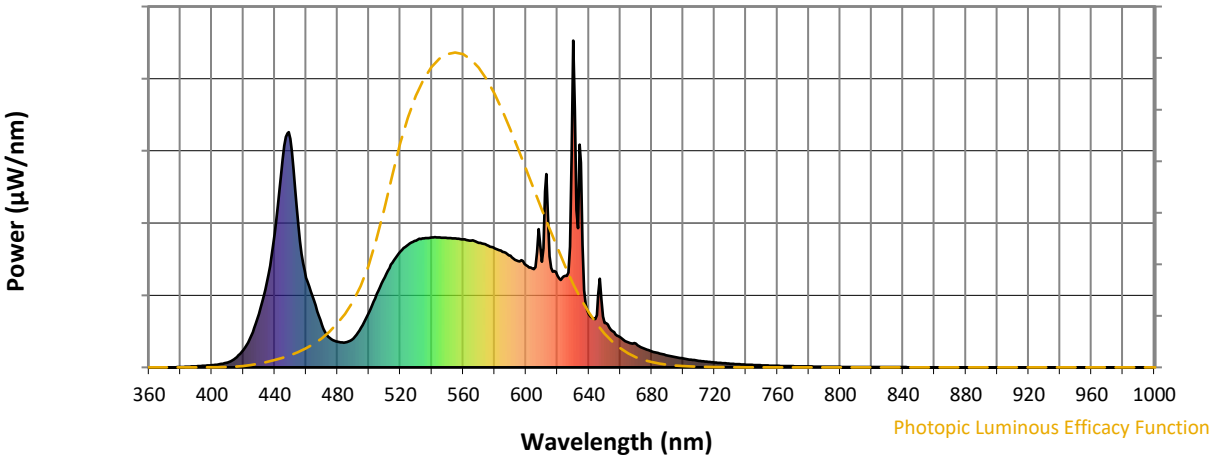
Photopic Flux vs. Wavelength



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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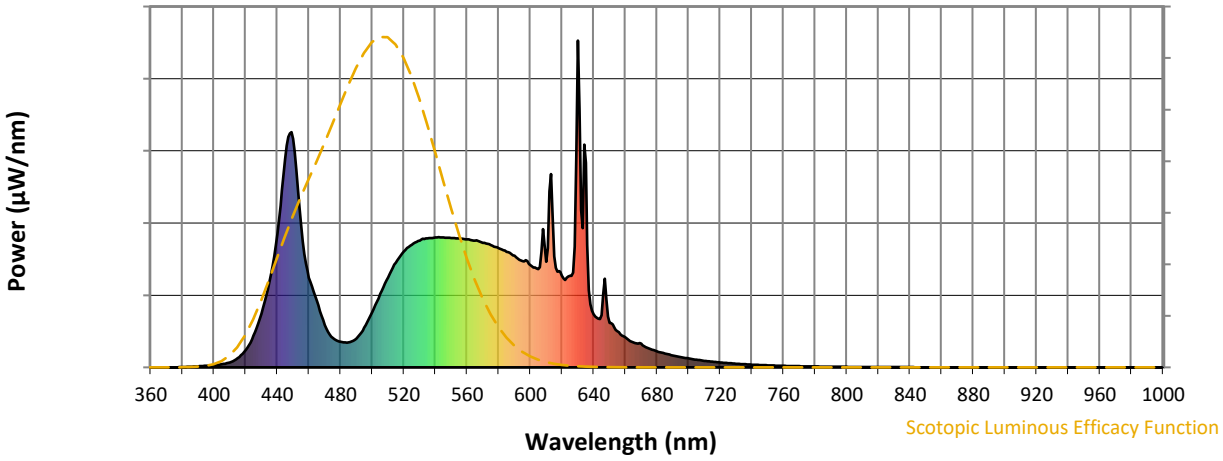
Scotopic Flux vs. Wavelength



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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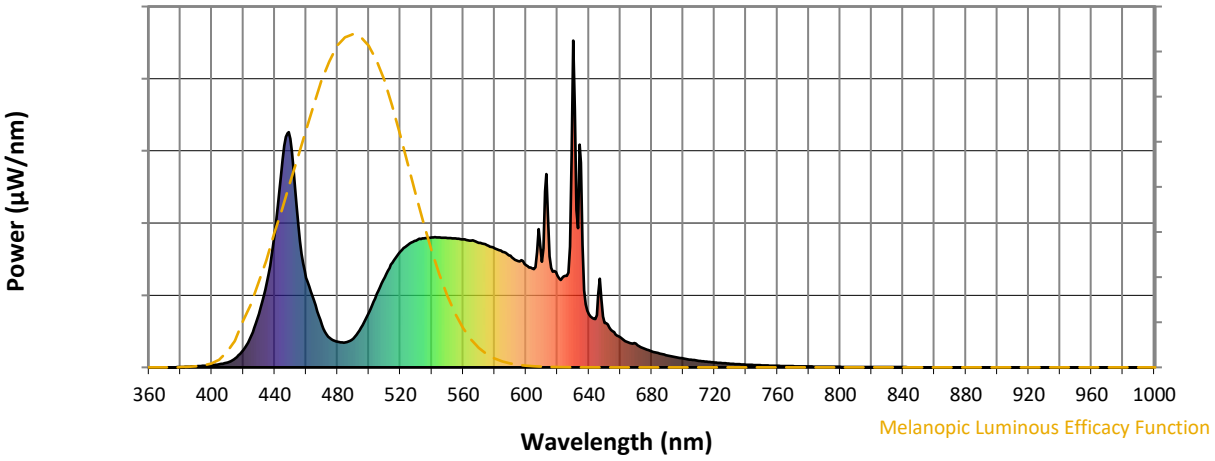
Melanopic Flux vs. Wavelength



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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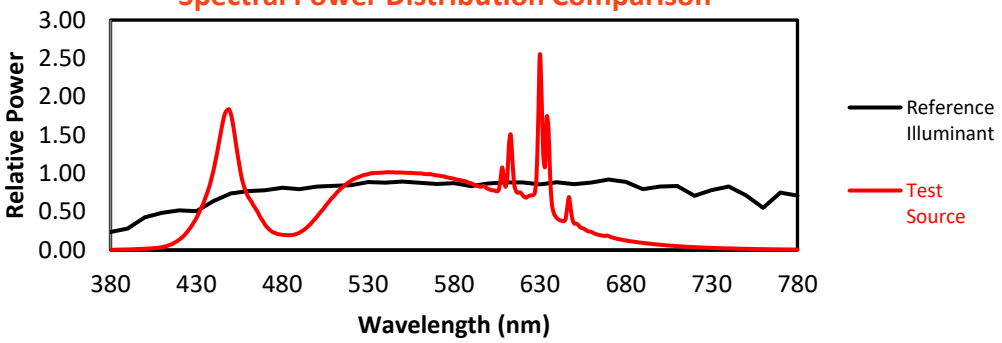
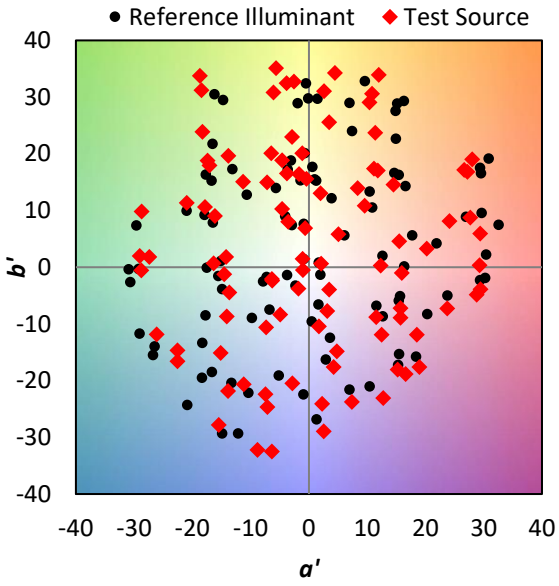
Summary

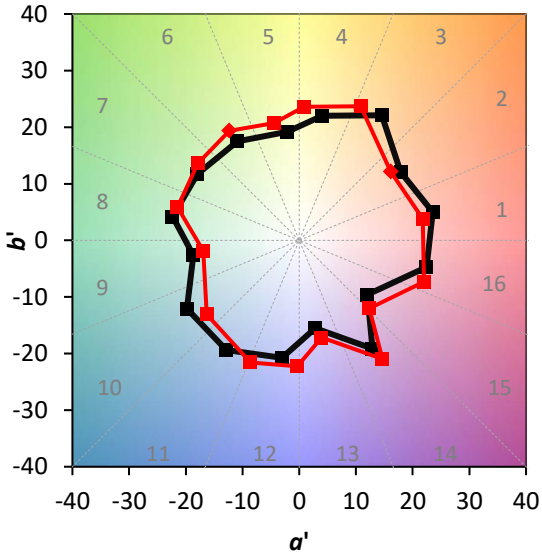
R_f = 80
R_g = 102.3
CIE R_a = 82.3
R_9 = 43.9

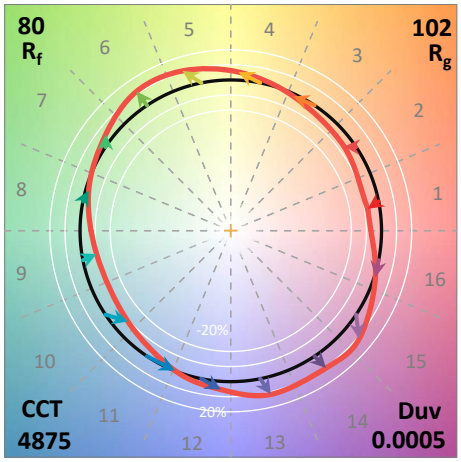
Spectral Power Distribution Comparison

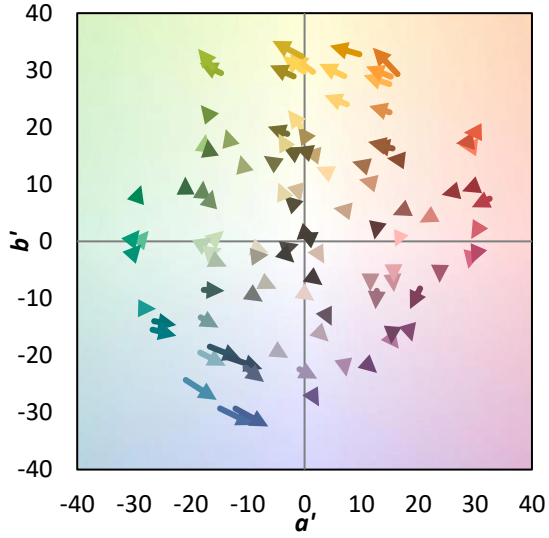


Color Vector Graphics









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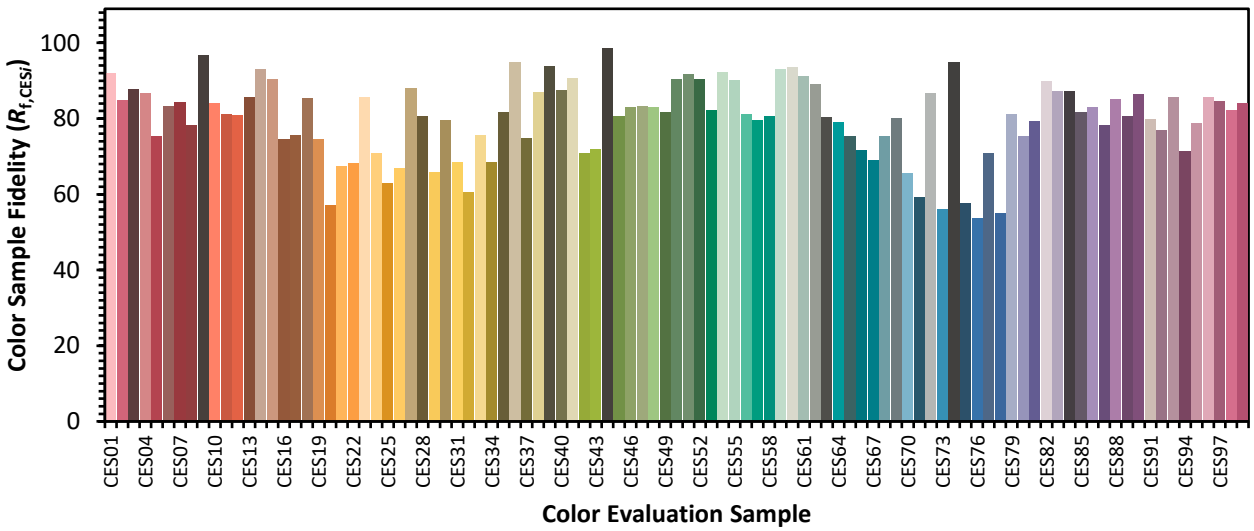
Individual Sample Fidelity Index ($R_{f,i}$)

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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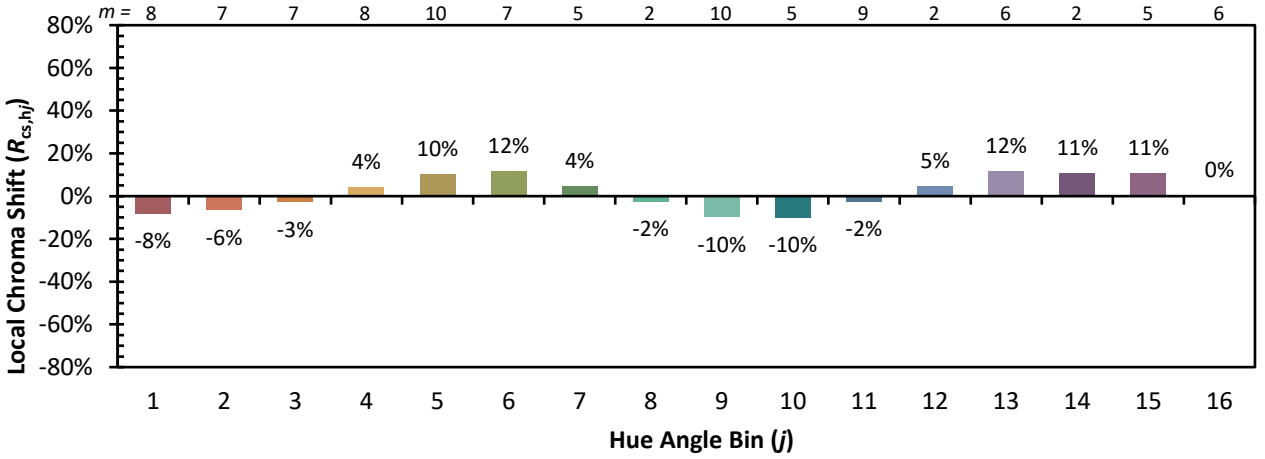
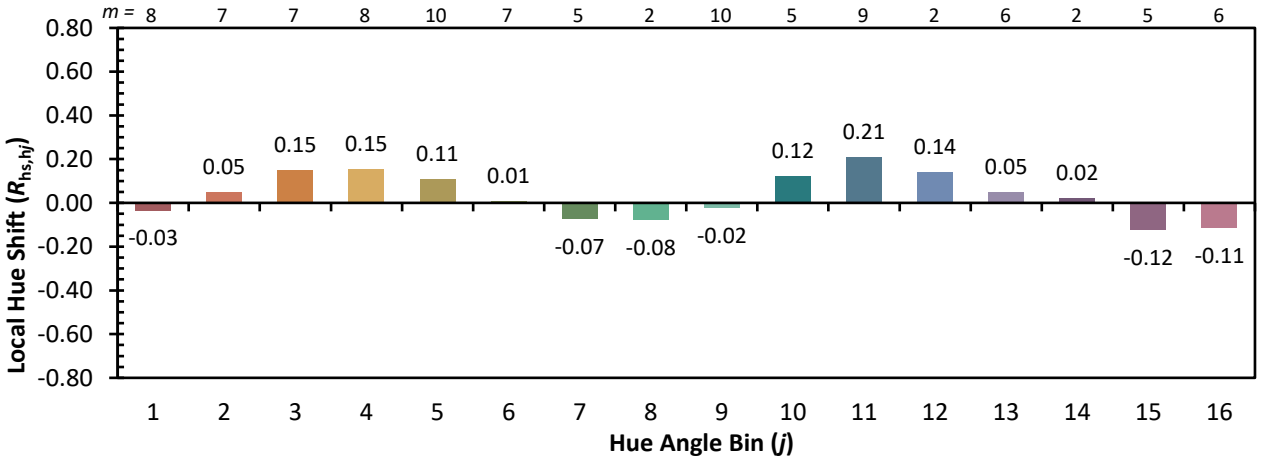
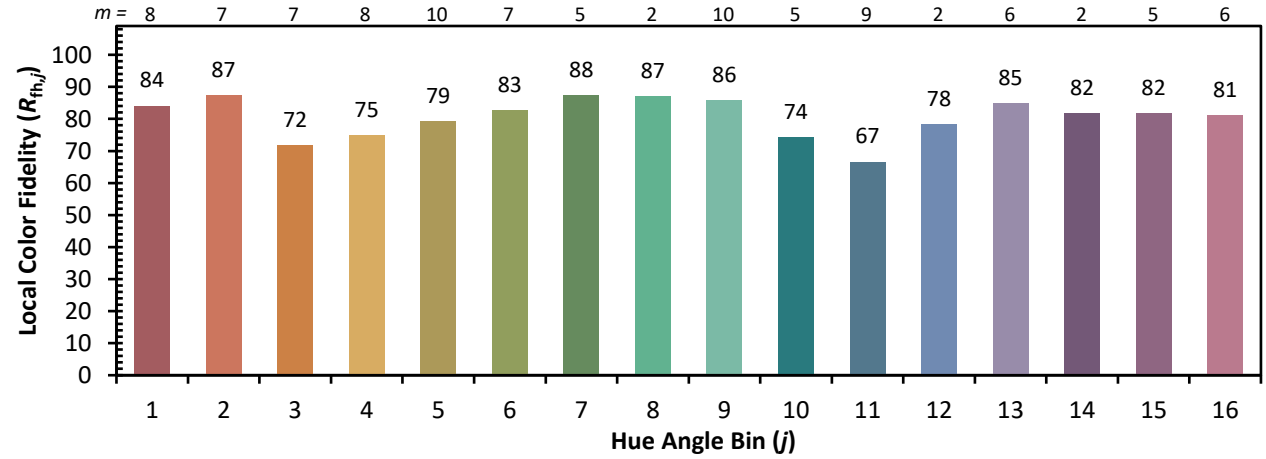
Color Rendition by Hue-Angle Bin







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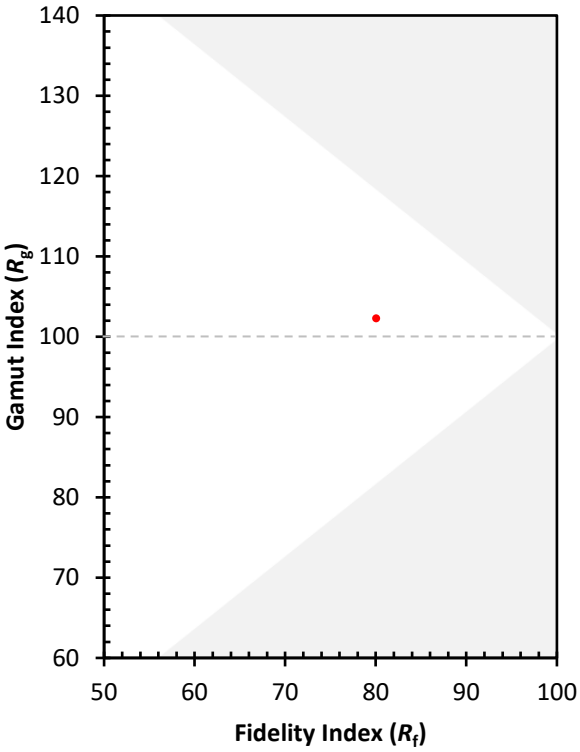
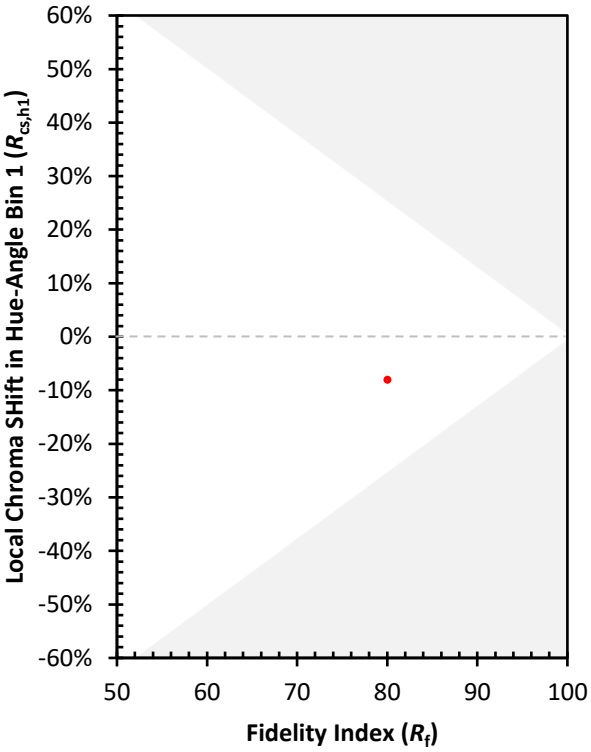
Measure Comparisons





(END OF REPORT)