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: P1432882

Luminaire Tested: EHBR1-18-UNV-ASM-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:	P1432882
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab:	INNOVATION CENTER
Issue Date:	3/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-18-UNV-ASM-L850
Description:	Elevate Round Highbay at, 18000 lumens, 5000K 80CRI LEDs with ASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18027.2 lumens
Efficiency:	N/A
Efficacy:	190.4 lumens/watt
Spacing Criteria (0/90/45):	0.84 / 0.99 / 0.92
Luminous Opening:	Circular (Dia: 1.71' x H: 0')
CIE Type:	Direct

Input Watts (W):	94.7
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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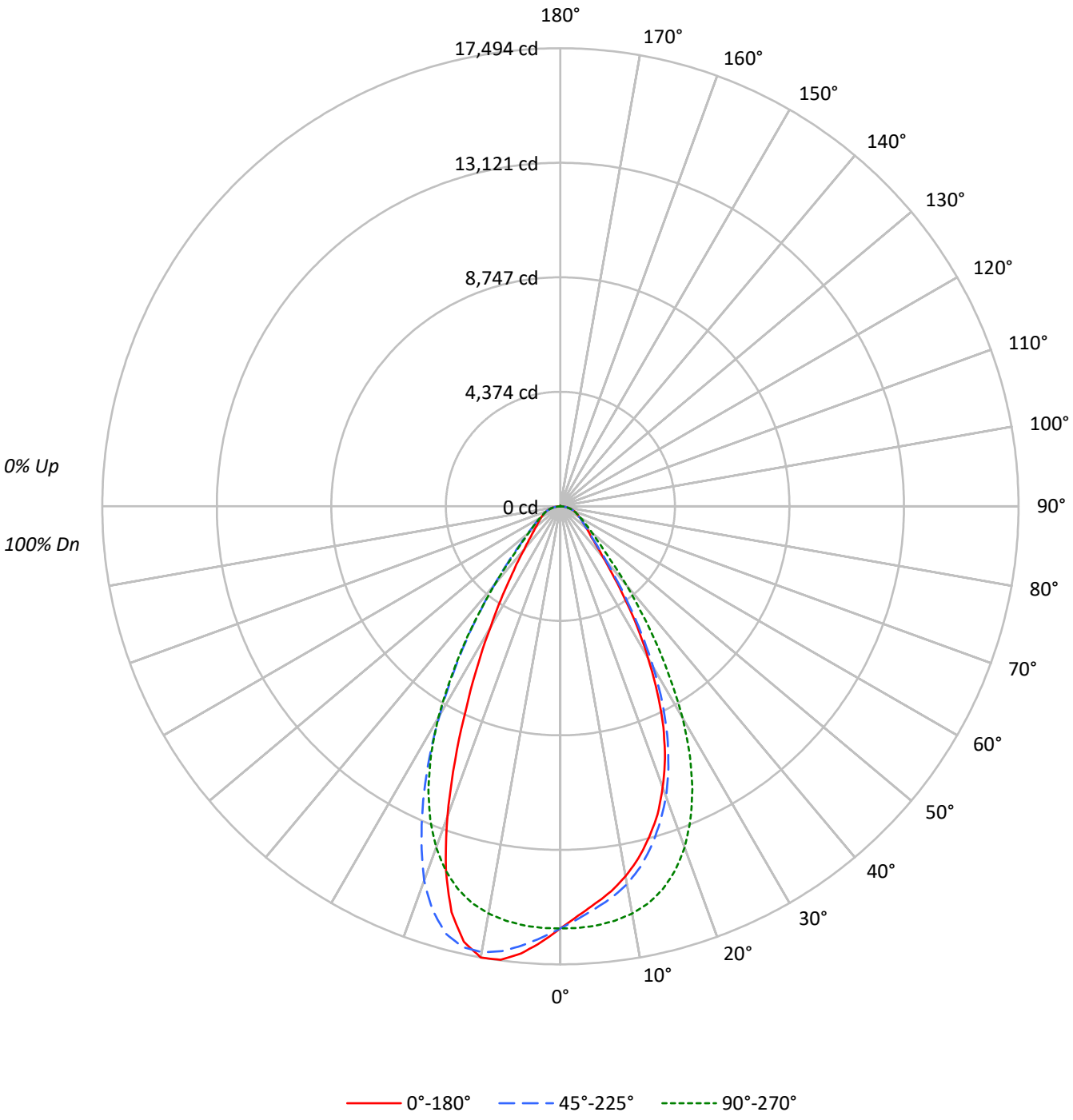
Scaled Data Report

TEST NUMBER: P1432882
CATALOG NUMBER: EHBR1-18-UNV-ASM-L850

Luminous Intensity Polar Plot



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TEST NUMBER: P1432882
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	75712	75712	75712	75712	75712
5°	71811	72650	75742	79374	80802
10°	68410	69859	75303	82462	83422
15°	63618	65318	73572	82166	78047
20°	57064	58986	69291	76057	63023
25°	48177	50000	61783	64268	43990
30°	36335	38441	50567	50062	28847
35°	24401	25874	36587	35996	18846
40°	15540	16608	23887	24041	13118
45°	11197	11663	15327	15986	10275
50°	9451	9526	11534	11834	8848
55°	8477	8498	9569	9822	8191
60°	8010	7942	8456	8634	7962
65°	7855	7784	7918	8073	7887
70°	7924	7788	7796	7946	8028
75°	7993	7751	7733	8007	8239
80°	8094	7532	7564	8094	8657
85°	7673	6369	6369	7285	8045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
Vertical Angle: 45°
Luminance: 21549 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1533.0	8.5
10°-20°	4170.6	23.1
20°-30°	4891.2	27.1
30°-40°	3401.6	18.9
40°-50°	1690.4	9.4
50°-60°	1011.0	5.6
60°-70°	711.6	3.9
70°-80°	458.4	2.5
80°-90°	145.6	0.8
90°-100°	0.8	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	1.3	0.0
130°-140°	1.8	0.0
140°-150°	2.1	0.0
150°-160°	2.4	0.0
160°-170°	2.3	0.0
170°-180°	1.0	0.0
0°-30°	10594.8	58.8
0°-40°	13996.3	77.6
0°-60°	16697.8	92.6
0°-90°	18013.4	99.9
90°-120°	2.9	0.0
90°-150°	8.1	0.0
90°-180°	14.0	0.1
0°-180°	18027.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16122	16122	16122	16122	16122	
5°	15234	15412	16067	16838	17141	1429
15°	13086	13435	15133	16900	16053	3649
25°	9298	9650	11924	12403	8490	4195
35°	4256	4513	6382	6279	3287	2711
45°	1686	1756	2308	2407	1547	1363
55°	1035	1038	1169	1200	1000	939
65°	707	700	713	726	710	702
75°	440	427	426	441	454	465
85°	142	118	118	135	149	147
90°	0	0	0	1	2	7
95°	0	0	1	1	2	0
105°	1	0	1	1	3	1
115°	1	1	1	1	3	1
125°	1	1	1	2	3	1
135°	1	2	2	2	3	1
145°	3	4	4	3	4	2
155°	6	5	5	5	5	3
165°	8	8	8	9	10	2
175°	10	10	11	12	13	1
180°	11	11	11	11	11	

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TEST NUMBER: P1432882
CATALOG NUMBER: EHBR1-18-UNV-ASM-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16122.3	16122.3	16122.3	16122.3	16122.3	16122.3	16122.3	16122.3	16122.3
2.5°	15643.7	15654.0	15763.5	15905.8	16112.9	16321.2	16489.9	16601.2	16656.2
5°	15233.5	15290.3	15411.5	15673.1	16067.3	16484.5	16837.9	17069.1	17140.7
7.5°	14833.8	14866.7	15069.7	15400.0	15958.2	16608.1	17133.3	17403.2	17469.1
10°	14346.2	14420.9	14650.0	15039.7	15791.6	16686.1	17292.9	17486.3	17494.2
12.5°	13772.3	13871.3	14108.0	14599.5	15525.8	16658.3	17239.4	17175.9	17031.6
15°	13085.5	13172.3	13435.0	14005.1	15132.8	16493.5	16900.5	16383.8	16053.3
17.5°	12343.6	12422.3	12650.5	13278.3	14579.0	16185.2	16193.0	15170.9	14547.5
20°	11418.5	11480.2	11803.1	12419.2	13865.2	15690.6	15219.0	13349.5	12610.9
22.5°	10434.2	10491.9	10778.8	11420.0	12970.3	15023.7	13862.4	11517.1	10509.4
25°	9297.8	9329.2	9649.6	10229.5	11923.7	14206.5	12403.2	9520.5	8489.7
27.5°	8019.3	8072.7	8408.1	9000.3	10692.6	13170.8	10849.3	7779.8	6828.8
30°	6700.6	6789.2	7089.1	7619.3	9325.3	11843.0	9232.1	6195.7	5319.8
32.5°	5469.8	5533.6	5747.3	6301.5	7794.4	10541.6	7679.1	4964.3	4222.5
35°	4256.3	4320.2	4513.3	5057.5	6381.9	8913.2	6278.9	3900.8	3287.4
37.5°	3253.6	3366.3	3490.2	3932.0	5008.5	7374.7	5005.2	3141.1	2666.5
40°	2534.9	2553.1	2709.1	2991.7	3896.6	5766.4	3921.6	2507.4	2139.8
42.5°	2029.1	2078.4	2145.5	2357.1	2952.4	4409.3	3082.5	2057.9	1817.5
45°	1686.0	1705.4	1756.2	1898.3	2307.9	3244.7	2407.0	1736.2	1547.2
47.5°	1475.0	1466.6	1499.2	1605.6	1879.5	2507.7	1950.8	1489.2	1356.8
50°	1293.6	1288.5	1303.9	1374.9	1578.7	1924.2	1619.8	1300.0	1211.1
52.5°	1152.7	1157.2	1158.8	1202.9	1356.2	1569.3	1379.4	1158.5	1098.6
55°	1035.4	1041.1	1037.9	1070.5	1168.7	1319.3	1199.6	1041.8	1000.4
57.5°	943.8	939.6	935.1	952.6	1026.4	1119.1	1041.8	942.3	914.8
60°	852.8	848.9	845.6	857.1	900.3	969.2	919.3	855.6	847.7
62.5°	774.8	772.4	772.1	770.0	803.2	846.7	813.0	777.6	770.6
65°	706.9	704.1	700.5	697.1	712.6	753.0	726.5	707.5	709.8
67.5°	638.8	638.8	632.4	627.3	642.4	663.5	652.1	641.2	643.9
70°	577.1	577.4	567.2	563.3	567.8	590.5	578.7	580.1	584.7
72.5°	510.9	503.6	496.1	495.8	496.4	513.9	510.0	513.6	518.5
75°	440.5	432.0	427.2	421.7	426.2	439.6	441.3	446.6	454.1
77.5°	372.5	359.4	355.5	352.8	349.8	364.9	370.6	377.6	388.8
80°	299.3	285.1	278.5	274.6	279.7	286.6	299.3	304.4	320.1
82.5°	221.3	210.7	202.6	202.3	204.7	211.0	221.9	231.5	240.7
85°	142.4	125.4	118.2	120.9	118.2	127.9	135.2	146.7	149.3
87.5°	51.4	40.2	38.4	42.3	41.5	44.4	50.8	55.3	55.6
90°	0.3	0.3	0.3	0.3	0.3	0.6	0.9	1.8	2.5
92.5°	0.3	0.3	0.3	0.3	0.3	0.6	0.9	1.8	2.5
95°	0.3	0.3	0.3	0.3	0.6	0.6	0.9	1.8	2.5
97.5°	0.6	0.3	0.3	0.3	0.6	0.6	0.9	1.8	2.5
100°	0.6	0.3	0.3	0.6	0.6	0.6	0.9	1.8	2.5
102.5°	0.6	0.3	0.3	0.6	0.6	0.9	1.2	2.2	2.5
105°	0.6	0.3	0.3	0.6	0.6	0.9	1.2	2.2	2.8
107.5°	0.6	0.3	0.6	0.6	0.6	0.9	1.2	2.2	2.8
110°	0.6	0.3	0.6	0.6	0.6	0.9	1.2	2.2	2.8

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Scaled Data Report

TEST NUMBER: P1432882
CATALOG NUMBER: EHBR1-18-UNV-ASM-L850

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.6	0.3	0.6	0.6	0.6	0.9	1.2	2.2	*2.8*
115°	0.6	0.3	0.6	0.6	0.9	0.9	1.2	2.2	*2.8*
117.5°	0.6	0.3	0.6	0.9	0.9	0.9	1.2	2.2	*2.8*
120°	0.6	0.3	0.6	0.9	0.9	0.9	1.5	2.2	*2.8*
122.5°	0.6	0.6	0.9	1.2	1.2	1.2	1.5	2.5	*2.8*
125°	0.9	0.6	1.2	1.5	1.2	1.2	1.8	2.5	*3.0*
127.5°	0.9	0.6	1.2	1.5	1.5	1.5	1.8	2.5	*3.0*
130°	0.9	0.9	1.5	1.8	1.8	1.5	1.8	2.8	*3.0*
132.5°	1.2	1.2	2.2	2.5	2.2	1.8	2.2	3.0	*3.3*
135°	1.2	1.5	2.2	2.8	2.5	1.8	2.5	2.8	*3.3*
137.5°	1.5	1.8	2.8	3.0	2.8	2.2	2.5	3.0	*3.3*
140°	2.2	2.5	3.0	3.0	3.0	2.5	2.5	3.0	*3.6*
142.5°	2.8	2.8	3.3	3.3	3.3	2.8	2.8	3.3	*3.6*
145°	3.3	3.3	3.6	3.3	3.6	3.3	3.0	3.3	*3.9*
147.5°	3.9	3.9	3.9	3.6	3.6	3.3	3.3	3.6	*4.2*
150°	4.5	4.5	4.2	3.9	3.9	3.9	3.6	3.9	*4.5*
152.5°	5.1	4.8	4.5	4.2	4.2	4.2	4.2	4.5	*4.8*
155°	5.7	5.4	5.1	4.5	4.8	4.8	4.8	5.1	*5.4*
157.5°	6.7	6.1	5.7	5.4	5.4	5.7	5.7	6.1	*6.4*
160°	7.3	7.0	6.7	6.4	6.7	6.7	7.0	7.3	*7.6*
162.5°	7.9	7.6	7.3	7.3	7.3	7.3	7.9	8.2	*8.7*
165°	8.4	8.2	7.9	7.9	8.2	8.2	8.7	9.3	*10.0*
167.5°	8.4	8.4	8.4	8.4	8.7	8.7	9.3	10.3	*10.9*
170°	9.0	8.7	8.7	9.0	9.0	9.3	10.0	10.9	*11.5*
172.5°	9.6	9.3	9.6	9.6	10.0	10.0	10.9	11.8	*12.4*
175°	10.3	10.0	10.3	10.3	10.6	10.9	11.5	12.4	*13.0*
177.5°	10.6	10.3	10.3	10.3	10.6	11.2	11.8	12.7	*13.3*
180°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	*11.2*

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Scaled Data Report

TEST NUMBER: P1432882
CATALOG NUMBER: EHBR1-18-UNV-ASM-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	16.00	17.21	16.37	17.53	17.84	16.77	17.98	17.14	18.29	18.61
	3H	17.92	18.99	18.30	19.33	19.69	18.42	19.49	18.80	19.83	20.20
	4H	18.73	19.73	19.14	20.09	20.47	19.14	20.14	19.54	20.49	20.88
	6H	19.40	20.32	19.82	20.69	21.09	19.73	20.65	20.14	21.02	21.42
	8H	19.64	20.51	20.08	20.90	21.31	19.94	20.81	20.37	21.20	21.61
	12H	19.80	20.63	20.24	21.02	21.45	20.07	20.90	20.50	21.29	21.72
4H	2H	16.57	17.57	16.98	17.93	18.31	17.19	18.19	17.60	18.55	18.94
	3H	18.73	19.56	19.15	19.96	20.37	19.12	19.94	19.53	20.35	20.75
	4H	19.68	20.42	20.12	20.84	21.29	19.99	20.73	20.42	21.15	21.59
	6H	20.49	21.13	20.96	21.58	22.05	20.73	21.37	21.20	21.82	22.29
	8H	20.78	21.38	21.26	21.83	22.30	21.00	21.60	21.47	22.05	22.52
	12H	20.99	21.52	21.48	22.00	22.48	21.18	21.71	21.67	22.19	22.67
8H	4H	20.00	20.60	20.47	21.05	21.52	20.29	20.88	20.76	21.33	21.81
	6H	20.96	21.44	21.46	21.94	22.42	21.19	21.67	21.70	22.17	22.66
	8H	21.34	21.77	21.87	22.29	22.79	21.55	21.99	22.08	22.51	23.00
	12H	21.64	22.02	22.16	22.51	23.09	21.83	22.21	22.35	22.71	23.28
12H	4H	20.03	20.55	20.51	21.04	21.51	20.32	20.84	20.81	21.33	21.80
	6H	21.02	21.45	21.55	21.97	22.47	21.26	21.69	21.79	22.21	22.71
	8H	21.47	21.85	21.99	22.34	22.92	21.69	22.07	22.21	22.57	23.14

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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

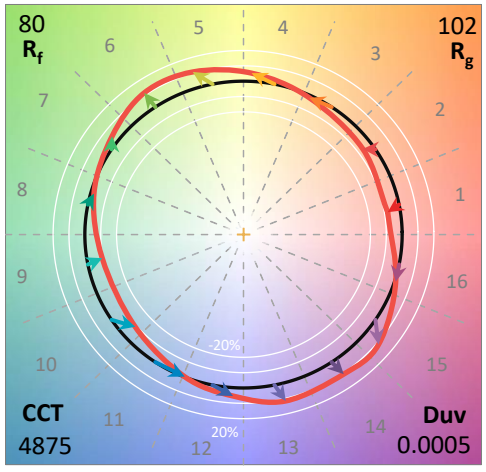
Test Information

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

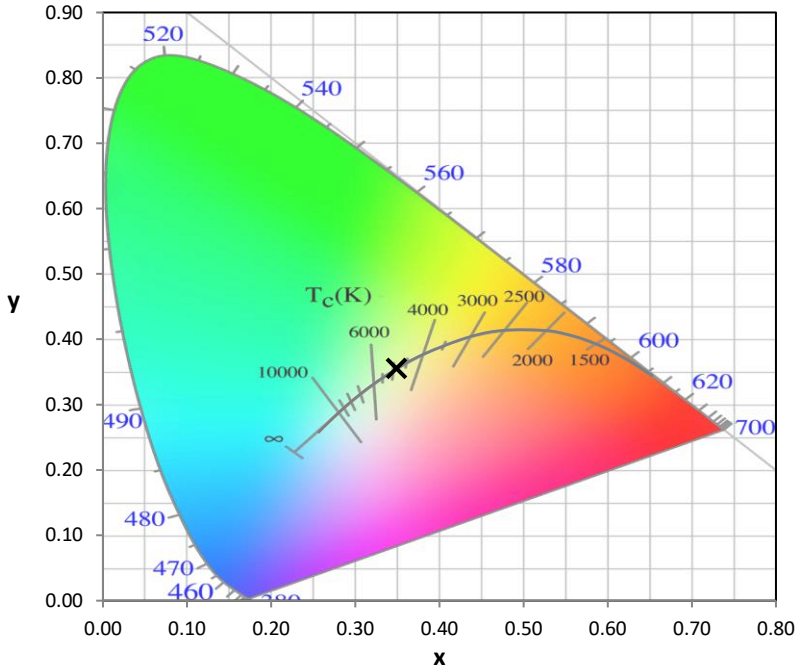
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-4

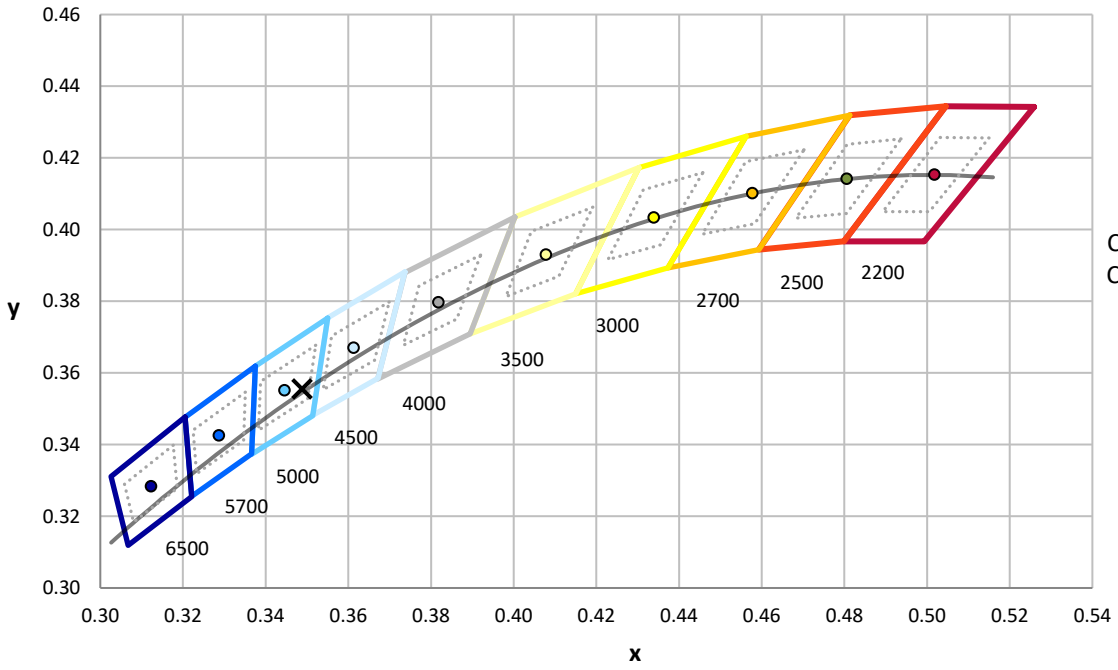
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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

REPORT NUMBER: SP1-2506-472-4

CIE 1931 Chromaticity Diagram



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

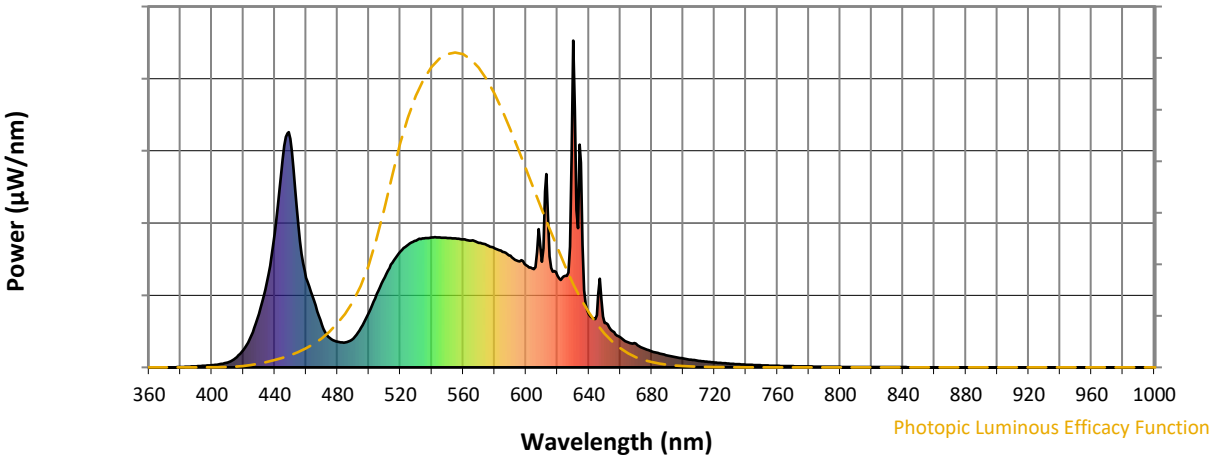


CCT = 4875K
CIE x = 0.3488
CIE y = 0.3555
Duv = 0.0005

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-4

Photopic Flux vs. Wavelength

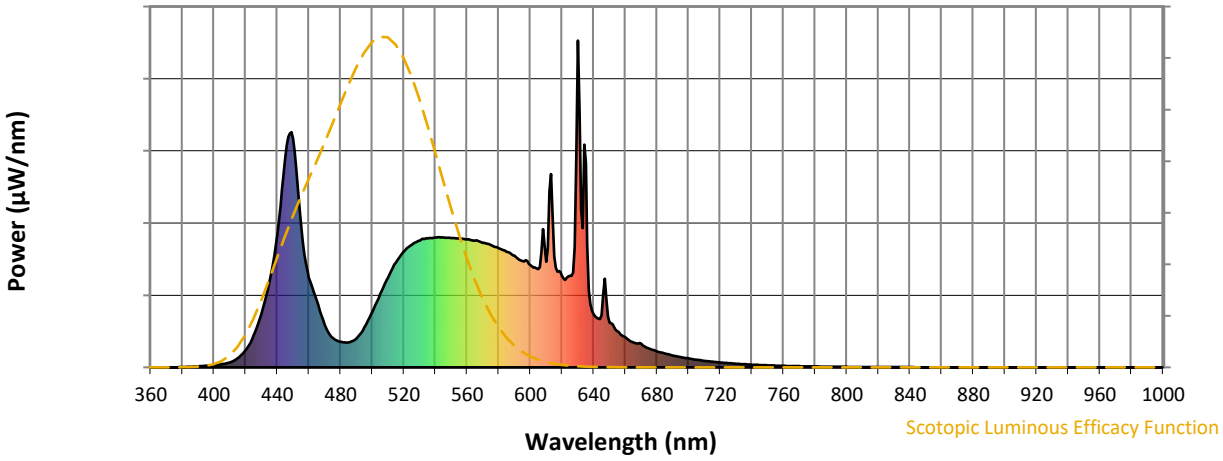


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2506-472-4

Scotopic Flux vs. Wavelength

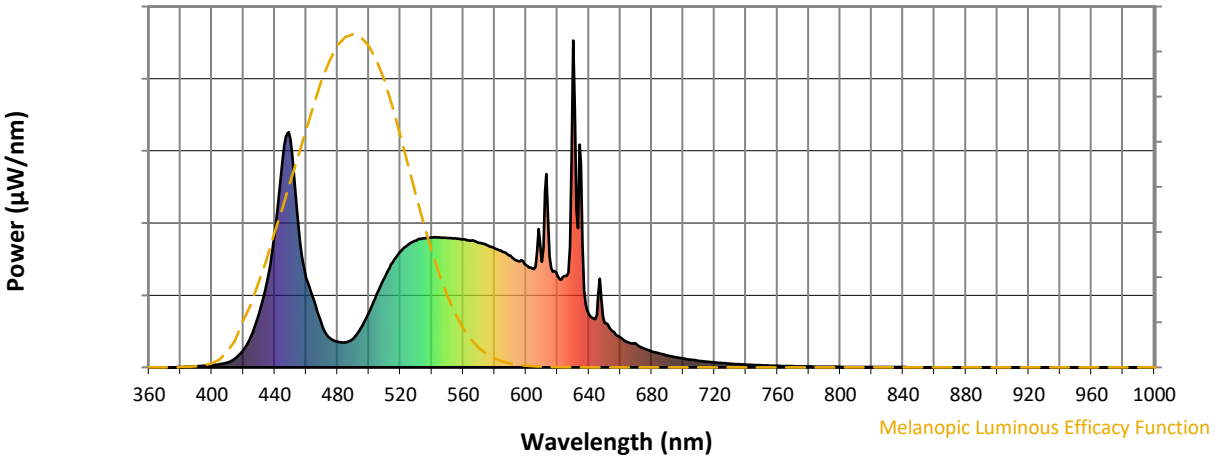


Scotopic Lumens: NR **S/P: 1.82**

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			

REPORT NUMBER: SP1-2506-472-4

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			

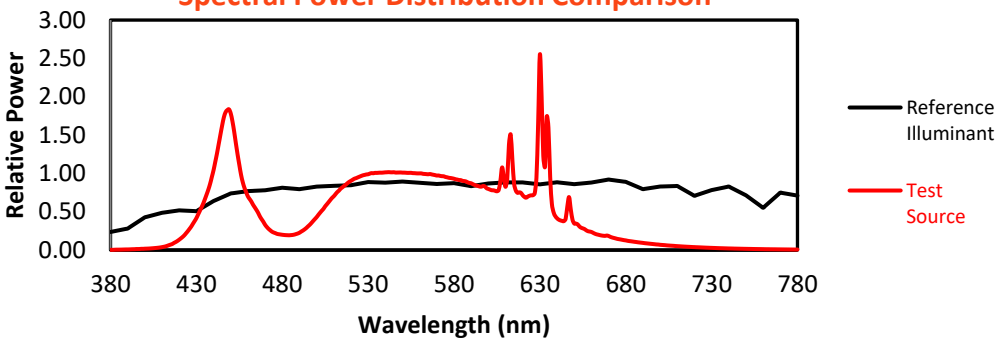
REPORT NUMBER: SP1-2506-472-4

TM-30-18

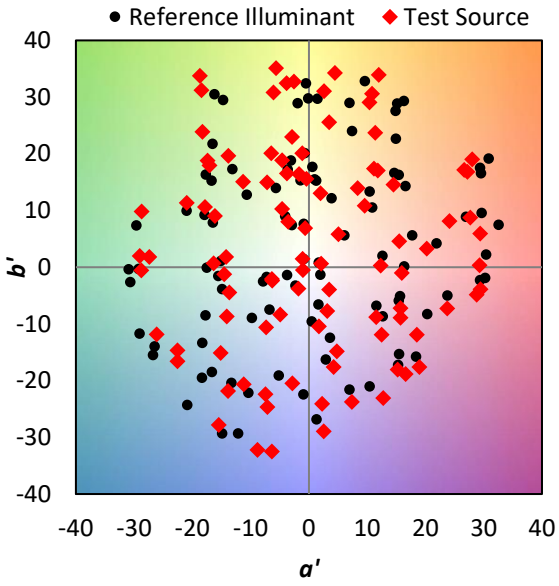
Summary

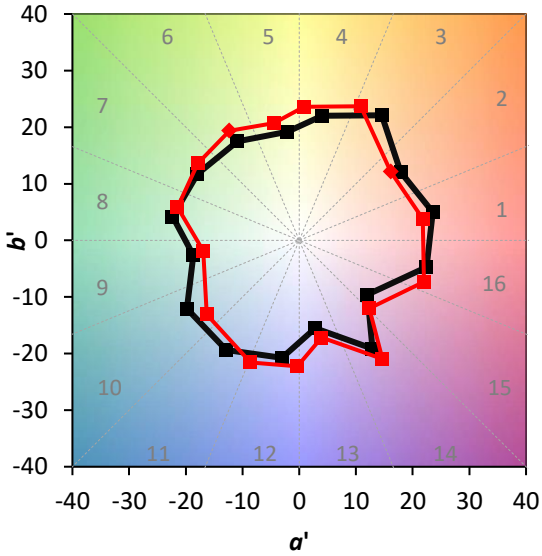
R_f = 80
R_g = 102.3
CIE R_a = 82.3
R_9 = 43.9

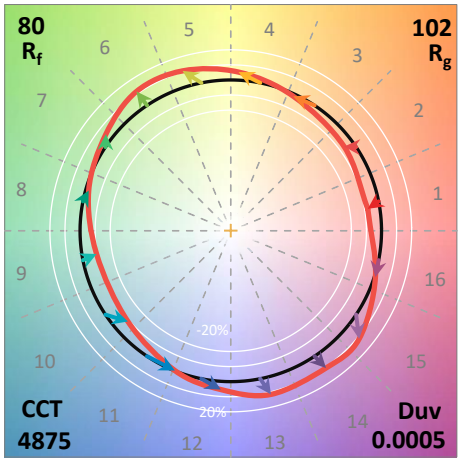
Spectral Power Distribution Comparison

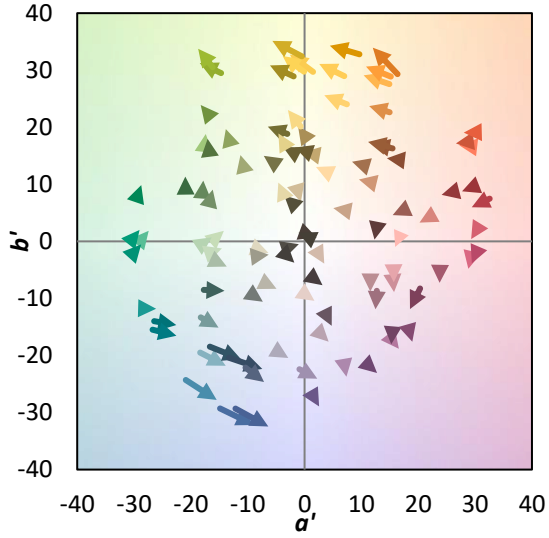


Color Vector Graphics







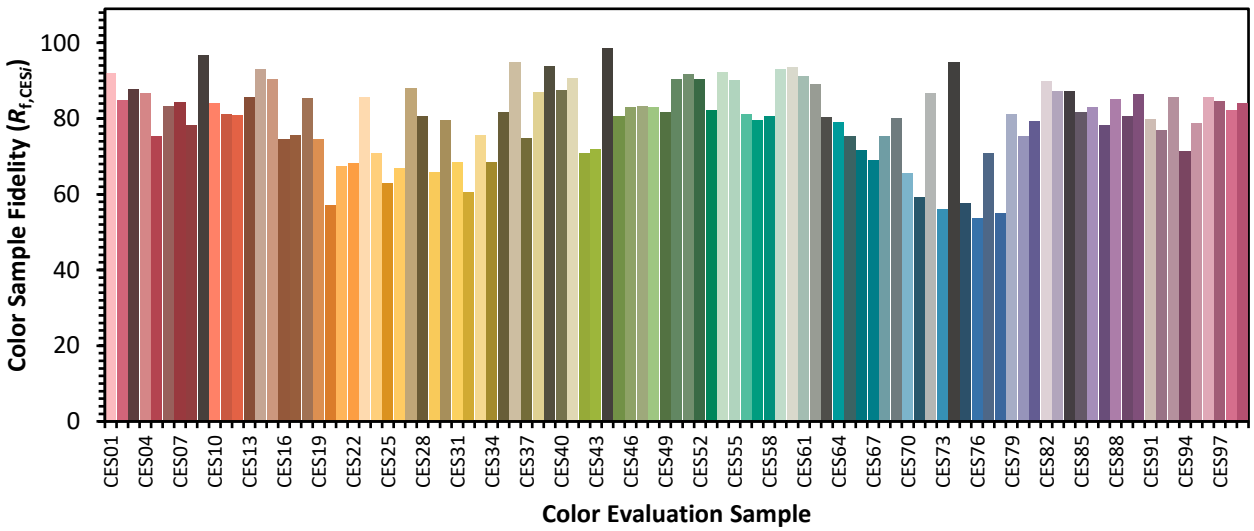


REPORT NUMBER: SP1-2506-472-4

TM-30-18

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

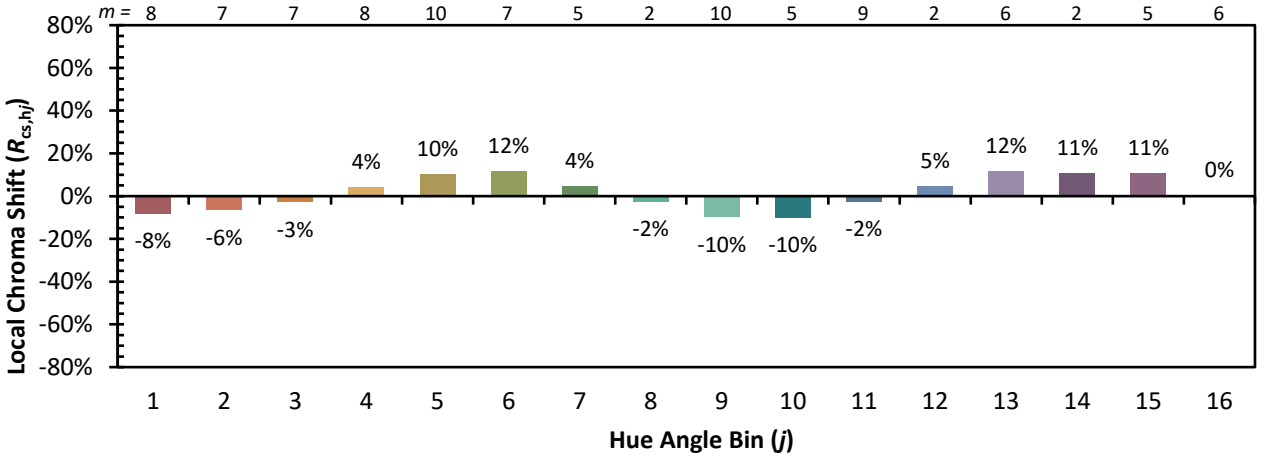
CES01 = 85	CES26 = 67	CES51 = 92	CES76 = 54
CES02 = 60	CES27 = 88	CES52 = 91	CES77 = 71
CES03 = 31	CES28 = 81	CES53 = 82	CES78 = 55
CES04 = 69	CES29 = 66	CES54 = 92	CES79 = 81
CES05 = 47	CES30 = 80	CES55 = 90	CES80 = 75
CES06 = 50	CES31 = 69	CES56 = 81	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 80	CES82 = 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	

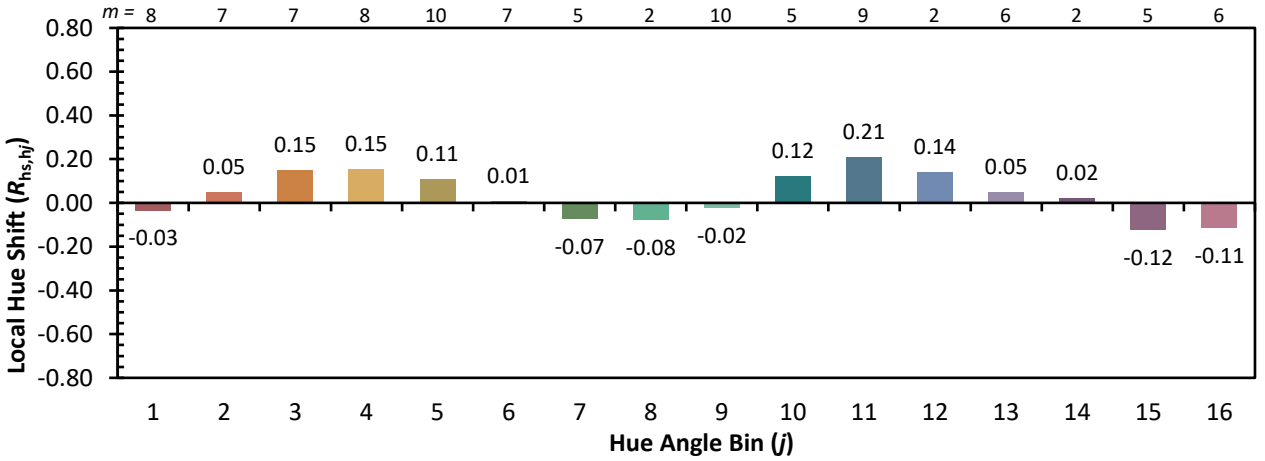


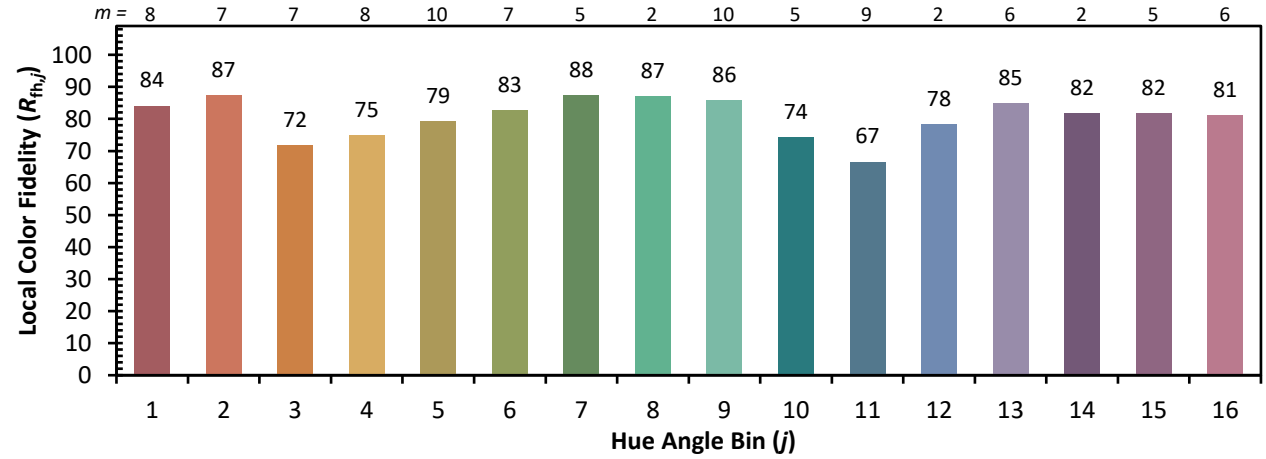
REPORT NUMBER: SP1-2506-472-4

TM-30-18

Color Rendition by Hue-Angle Bin



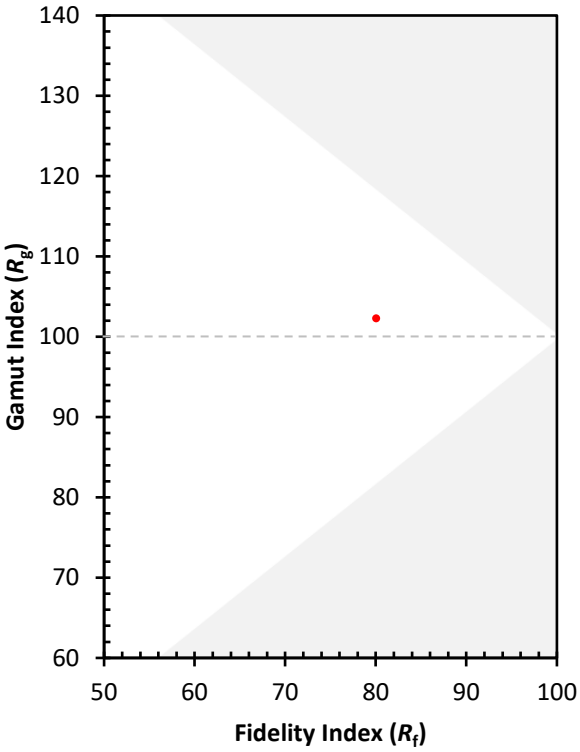


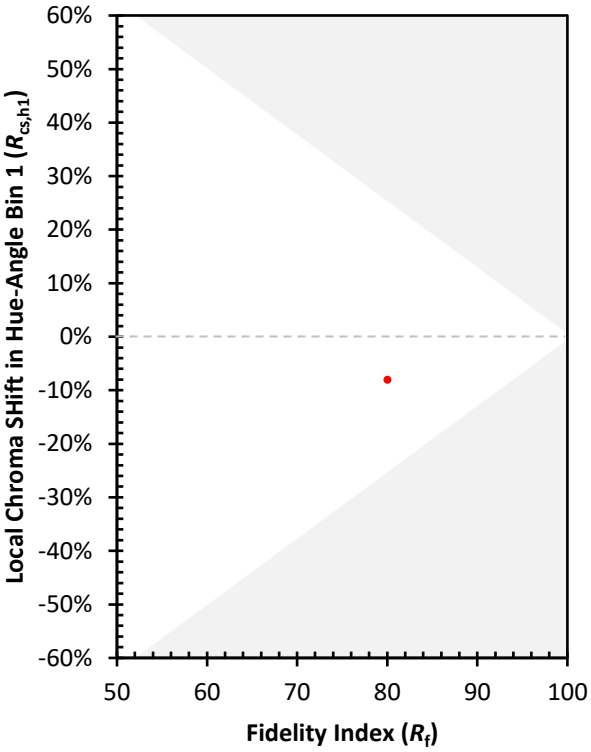


REPORT NUMBER: SP1-2506-472-4

TM-30-18

Measure Comparisons





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