

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: FAIL-SAFE

Report Number: P1357294

Luminaire Tested: 6ASL4-10HE-2-27-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 6ASL4-10HE-2-27-UNV
Description: 6FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

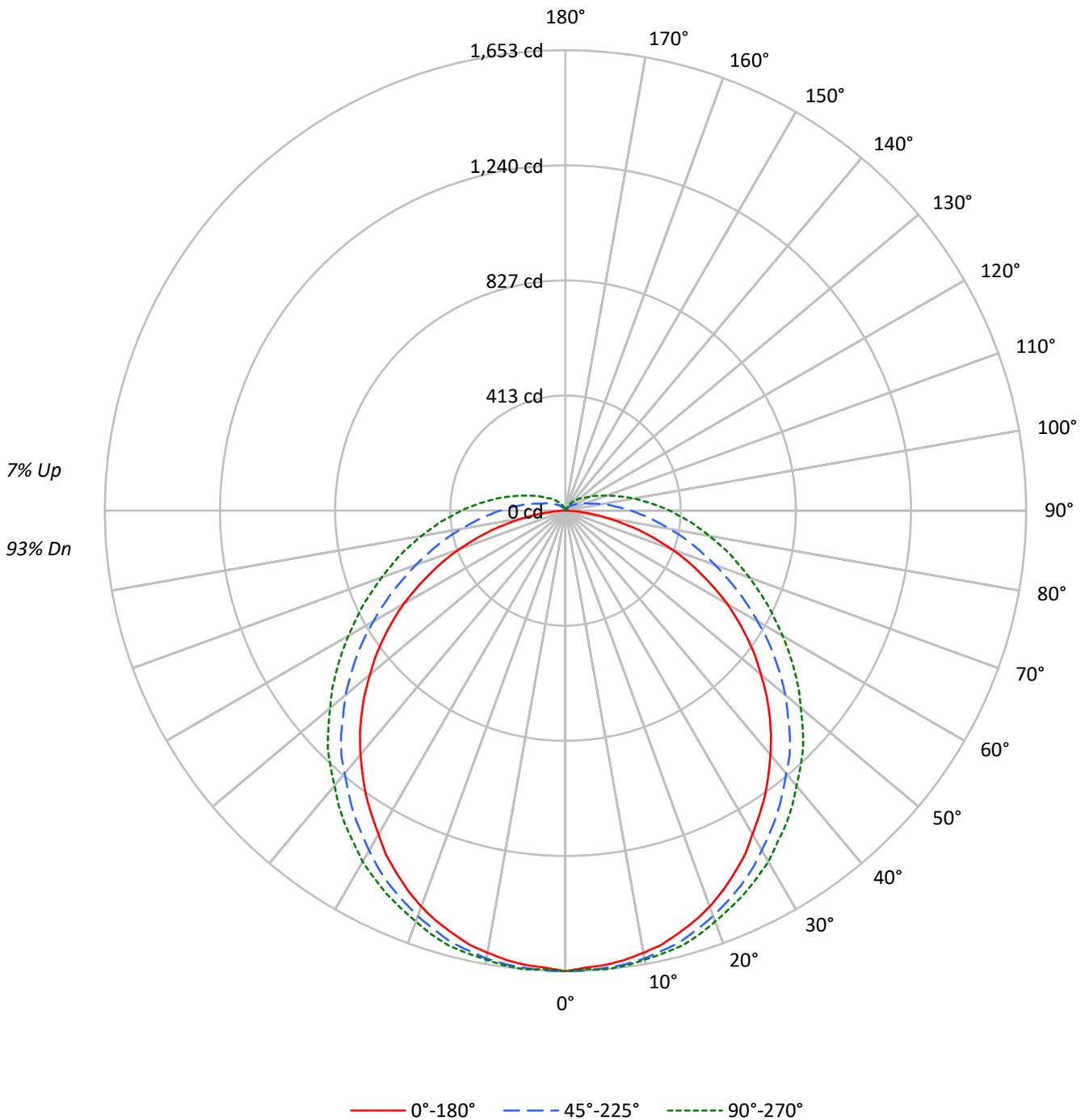
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5676.1 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 49.8
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1357294
CATALOG NUMBER: 6ASL4-10HE-2-27-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1357294
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8930	8930	8930
5°	8866	8757	8725
10°	8812	8600	8513
15°	8739	8427	8343
20°	8641	8208	8103
25°	8482	7992	7896
30°	8282	7744	7691
35°	8128	7514	7453
40°	7948	7265	7202
45°	7767	7051	7019
50°	7532	6768	6748
55°	7309	6463	6533
60°	7032	6120	6304
65°	6597	5801	6127
70°	6111	5503	5963
75°	5400	5277	5910
80°	4268	5081	5891
85°	2687	5097	6060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7767 cd/sqm



TEST NUMBER: P1357294
 CATALOG NUMBER: 6ASL4-10HE-2-27-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	2.8
10°-20°	450.7	7.9
20°-30°	682.9	12.0
30°-40°	826.0	14.6
40°-50°	870.8	15.3
50°-60°	812.8	14.3
60°-70°	671.0	11.8
70°-80°	486.8	8.6
80°-90°	307.5	5.4
90°-100°	183.6	3.2
100°-110°	105.2	1.9
110°-120°	59.8	1.1
120°-130°	34.1	0.6
130°-140°	18.5	0.3
140°-150°	8.1	0.1
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1290.5	22.7
0°-40°	2116.5	37.3
0°-60°	3800.0	66.9
0°-90°	5265.3	92.8
90°-120°	348.6	6.1
90°-150°	409.3	7.2
90°-180°	411.0	7.2
0°-180°	5676.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1638	1653	1648	1648	1653	156
15°	1570	1591	1601	1607	1617	443
25°	1435	1456	1487	1508	1518	661
35°	1248	1279	1326	1362	1378	780
45°	1035	1076	1139	1185	1206	798
55°	796	842	915	978	1004	711
65°	536	593	681	764	801	532
75°	276	348	473	572	614	290
85°	52	161	302	406	447	64
90°	0	99	234	333	374	2
95°	0	62	177	270	307	0
105°	0	21	99	172	198	0
115°	0	10	57	104	125	0
125°	0	5	36	68	78	0
135°	0	0	21	42	52	0
145°	0	0	10	26	31	0
155°	0	0	0	5	10	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357294

CATALOG NUMBER: 6ASL4-10HE-2-27-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.4	1653.4	1653.4	1653.4	1653.4
2.5°	1643.0	1658.6	1653.4	1648.2	1648.2
5°	1637.8	1653.4	1648.2	1648.2	1653.4
7.5°	1627.4	1643.0	1643.0	1643.0	1648.2
10°	1611.8	1632.6	1632.6	1632.6	1637.8
12.5°	1596.2	1611.8	1617.0	1622.2	1627.4
15°	1570.2	1591.0	1601.4	1606.6	1617.0
17.5°	1544.2	1559.8	1575.4	1591.0	1596.2
20°	1513.0	1533.8	1549.4	1565.0	1570.2
22.5°	1476.6	1497.4	1518.2	1533.8	1544.2
25°	1435.0	1455.8	1487.0	1507.8	1518.2
27.5°	1393.4	1414.2	1450.6	1476.6	1487.0
30°	1341.4	1372.6	1409.0	1440.2	1455.8
32.5°	1294.6	1325.8	1367.4	1403.8	1414.2
35°	1247.8	1279.0	1325.8	1362.2	1377.8
37.5°	1195.8	1232.2	1279.0	1320.6	1336.2
40°	1143.8	1180.2	1232.2	1279.0	1289.4
42.5°	1091.8	1128.2	1190.6	1232.2	1247.8
45°	1034.6	1076.2	1138.6	1185.4	1206.2
47.5°	977.5	1019.1	1081.4	1133.4	1154.2
50°	915.1	961.9	1029.5	1081.4	1102.2
52.5°	857.9	904.7	972.3	1029.5	1055.4
55°	795.5	842.3	915.1	977.5	1003.5
57.5°	733.1	779.9	857.9	925.5	951.5
60°	670.7	717.5	795.5	873.5	899.5
62.5°	603.1	655.1	738.3	816.3	847.5
65°	535.5	592.7	681.1	764.3	800.7
67.5°	473.1	530.3	623.9	717.5	748.7
70°	405.5	467.9	571.9	665.5	701.9
72.5°	338.0	405.5	519.9	618.7	655.1
75°	275.6	348.3	473.1	571.9	613.5
77.5°	208.0	296.4	426.3	530.3	566.7
80°	150.8	244.4	379.5	488.7	525.1
82.5°	98.8	197.6	338.0	447.1	483.5
85°	52.0	161.2	301.6	405.5	447.1
87.5°	15.6	124.8	265.2	369.1	405.5
90°	0.0	98.8	234.0	332.8	374.3
92.5°	0.0	78.0	202.8	301.6	338.0
95°	0.0	62.4	176.8	270.4	306.8
97.5°	0.0	52.0	156.0	244.4	275.6
100°	0.0	41.6	135.2	218.4	249.6
102.5°	0.0	31.2	114.4	192.4	223.6
105°	0.0	20.8	98.8	171.6	197.6
107.5°	0.0	15.6	83.2	150.8	176.8
110°	0.0	15.6	78.0	130.0	156.0



TEST NUMBER: P1357294
 CATALOG NUMBER: 6ASL4-10HE-2-27-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.4	67.6	119.6	140.4
115°	0.0	10.4	57.2	104.0	124.8
117.5°	0.0	10.4	52.0	93.6	114.4
120°	0.0	10.4	46.8	83.2	98.8
122.5°	0.0	5.2	41.6	72.8	88.4
125°	0.0	5.2	36.4	67.6	78.0
127.5°	0.0	5.2	31.2	62.4	72.8
130°	0.0	5.2	31.2	57.2	67.6
132.5°	0.0	0.0	26.0	52.0	62.4
135°	0.0	0.0	20.8	41.6	52.0
137.5°	0.0	0.0	20.8	36.4	46.8
140°	0.0	0.0	15.6	36.4	41.6
142.5°	0.0	0.0	10.4	31.2	36.4
145°	0.0	0.0	10.4	26.0	31.2
147.5°	0.0	0.0	5.2	20.8	26.0
150°	0.0	0.0	5.2	15.6	20.8
152.5°	0.0	0.0	0.0	10.4	15.6
155°	0.0	0.0	0.0	5.2	10.4
157.5°	0.0	0.0	0.0	0.0	5.2
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



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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	16.93	18.46	17.40	18.92	19.41	19.02	20.55	19.49	21.01	21.50
	3H	18.43	19.83	18.92	20.30	20.83	21.48	22.88	21.97	23.35	23.88
	4H	18.91	20.24	19.42	20.73	21.27	22.70	24.03	23.21	24.52	25.06
	6H	19.18	20.42	19.70	20.92	21.48	23.99	25.23	24.51	25.73	26.29
	8H	19.24	20.42	19.77	20.95	21.51	24.66	25.85	25.20	26.37	26.94
	12H	19.25	20.39	19.79	20.91	21.51	25.42	26.55	25.96	27.07	27.67
4H	2H	17.81	19.14	18.32	19.63	20.17	19.45	20.77	19.95	21.26	21.81
	3H	19.56	20.69	20.08	21.22	21.79	22.14	23.27	22.66	23.80	24.37
	4H	20.16	21.20	20.70	21.74	22.34	23.53	24.57	24.07	25.11	25.71
	6H	20.57	21.48	21.12	22.05	22.66	25.02	25.94	25.58	26.50	27.12
	8H	20.66	21.52	21.23	22.09	22.72	25.80	26.66	26.37	27.23	27.86
	12H	20.71	21.49	21.30	22.09	22.72	26.68	27.46	27.27	28.06	28.69
8H	4H	20.87	21.73	21.43	22.29	22.92	23.75	24.62	24.32	25.18	25.81
	6H	21.45	22.18	22.05	22.79	23.42	25.41	26.15	26.01	26.75	27.39
	8H	21.64	22.30	22.25	22.92	23.56	26.34	27.00	26.95	27.62	28.26
	12H	21.76	22.35	22.37	22.96	23.67	27.41	27.99	28.02	28.60	29.31
12H	4H	21.07	21.85	21.66	22.45	23.08	23.76	24.54	24.35	25.14	25.77
	6H	21.76	22.42	22.37	23.04	23.68	25.45	26.11	26.06	26.73	27.38
	8H	22.05	22.64	22.66	23.25	23.96	26.45	27.04	27.06	27.65	28.36

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-2

Test Date: 11/17/2025

Luminaire Tested: 4ASL-2-27-UNV-OPL-1_600mA

Data in this report applies to families of products including 4ASL

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/18/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Fail-Safe
 Catalog Number: **4ASL-2-27-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDs with 1 rows at 600mA

Spectral Parameters

CCT (K): 2696
 CIE u': 0.2632
 CIE v': 0.5245
 Duv: -0.0020
 CIE x: 0.4568
 CIE y: 0.4045
 CIE z: 0.1387
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 584
 Purity: 58.52757
 Rf: 90.1
 Rg: 103.5

CRI (Ra):	94.4		
R1:	97.5	R9:	61.8
R2:	97.8	R10:	93.6
R3:	96.9	R11:	93.7
R4:	95.3	R12:	94.1
R5:	97.2	R13:	97.6
R6:	96.5	R14:	96.8
R7:	91.2	R15:	91.9
R8:	83.2		



Test Conditions

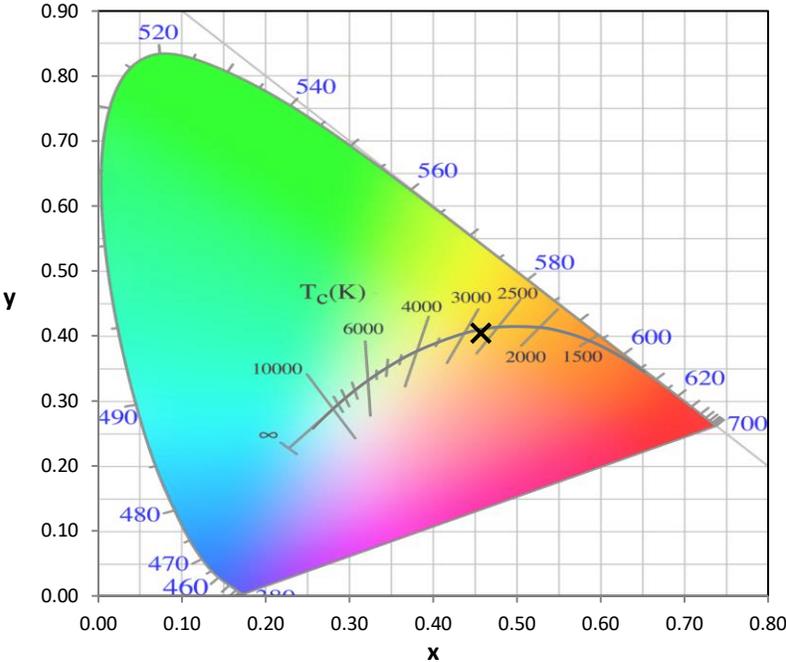
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-2

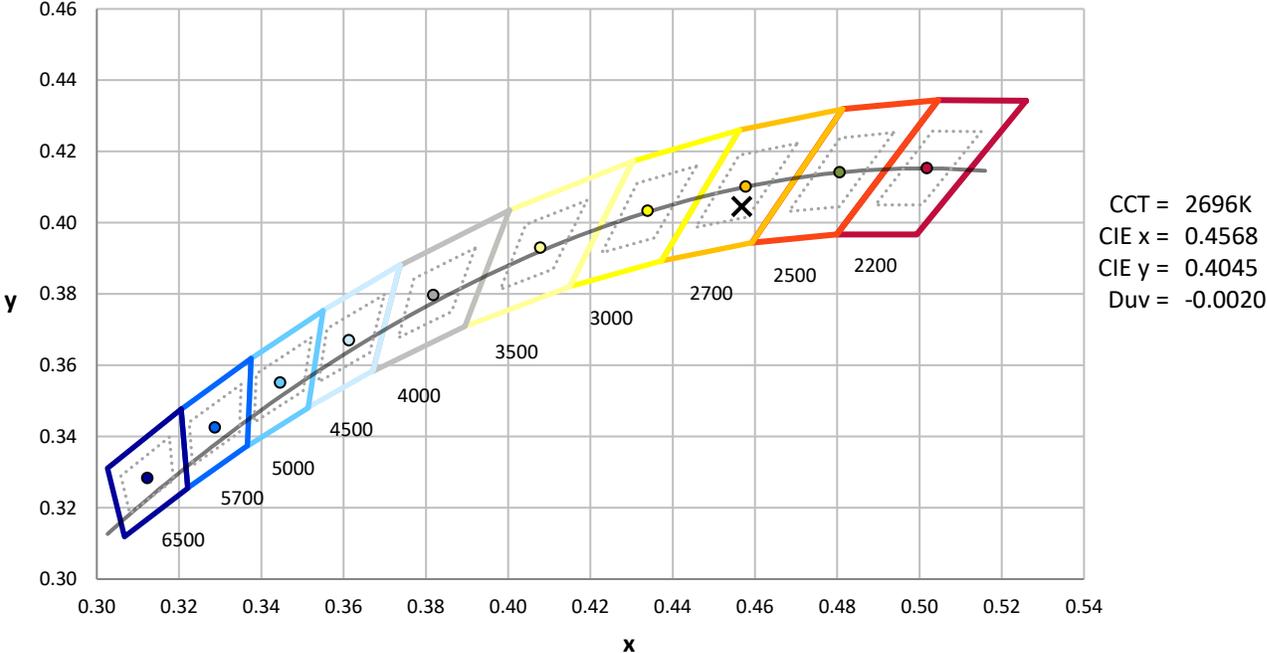
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2511-597-2

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2511-597-2

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	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-2

Scotopic Flux vs. Wavelength



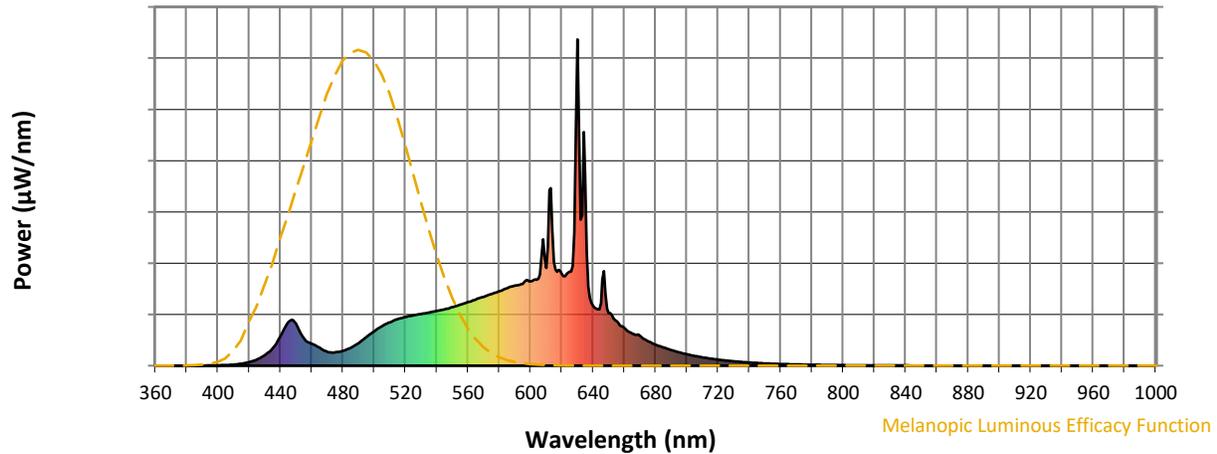
Scotopic Lumens: NR

S/P: 1.29

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	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-2

Melanopic Flux vs. Wavelength



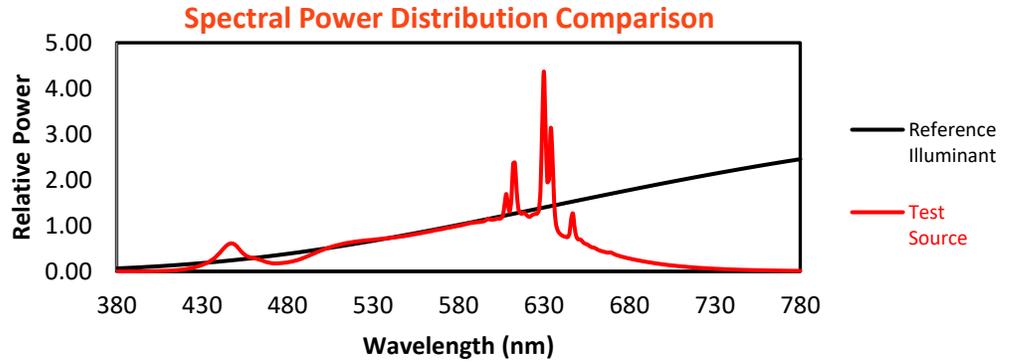
Melanopic Lumens: NR

M/P: 2.45

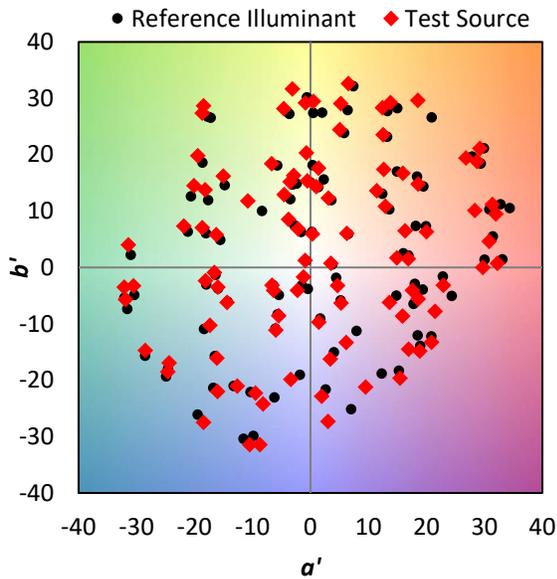
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

Summary

$R_f = 90.1$
 $R_g = 103.5$
 $CIE R_a = 94.4$
 $R_9 = 61.8$



Color Vector Graphics

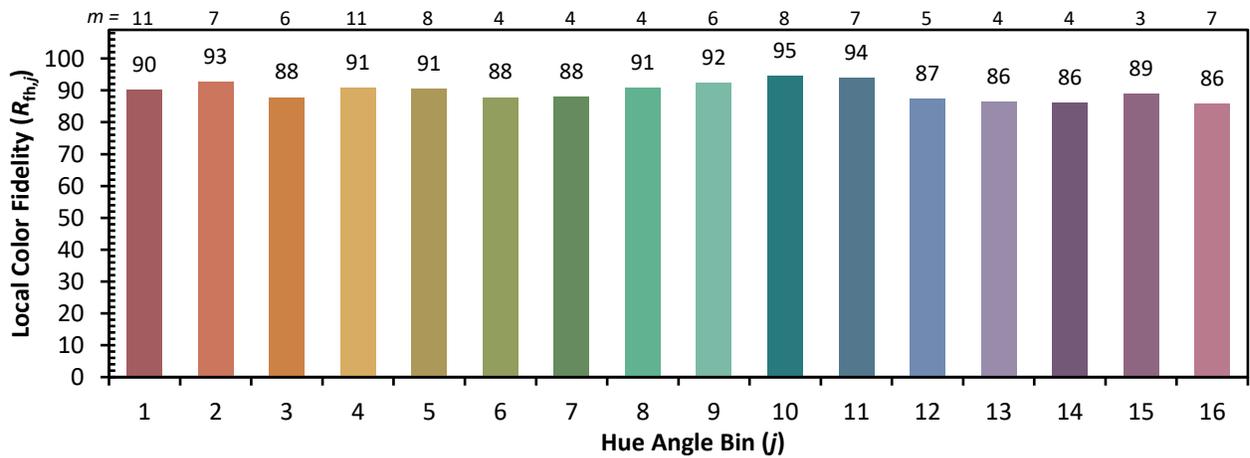
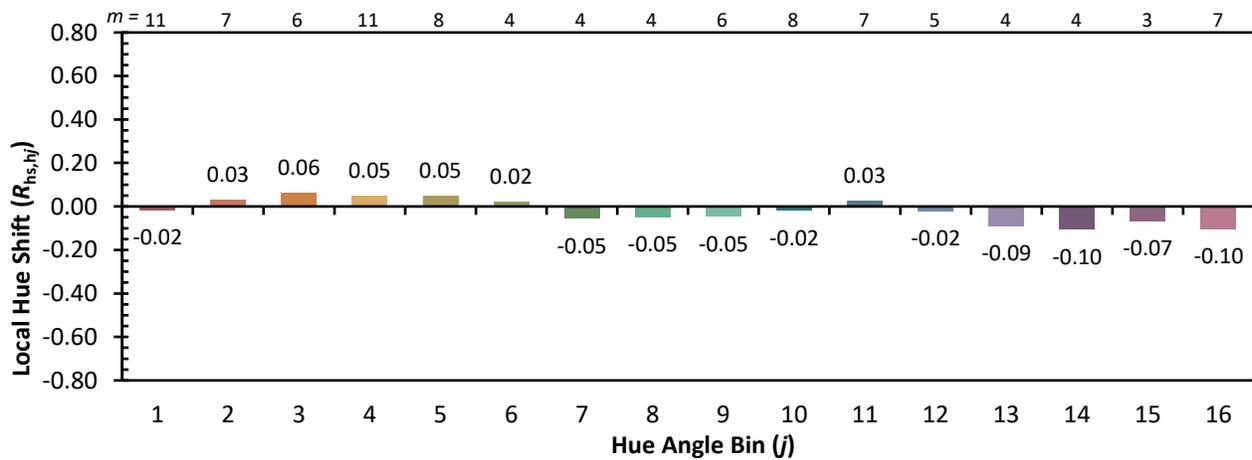
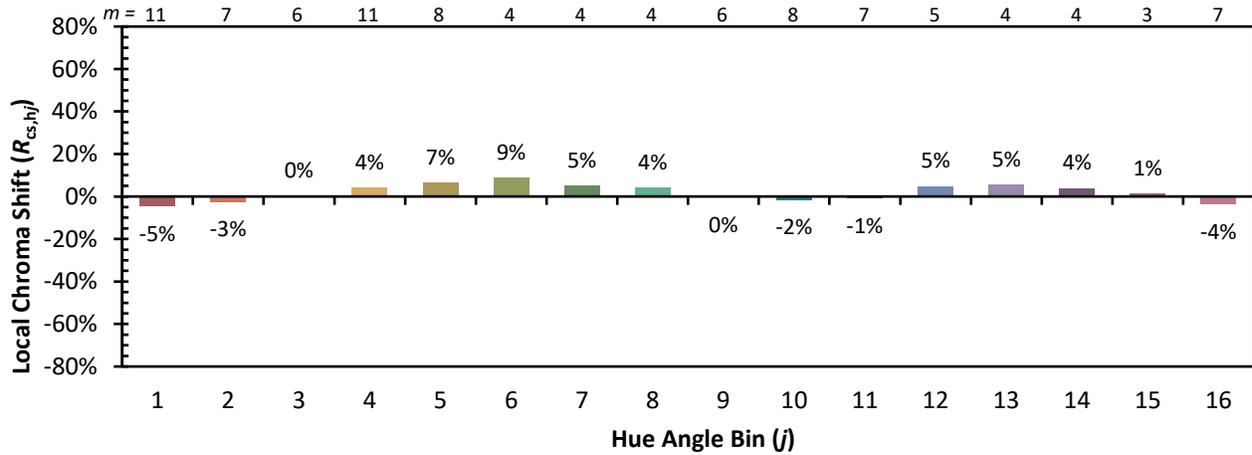


Individual Sample Fidelity Index ($R_{f,i}$)

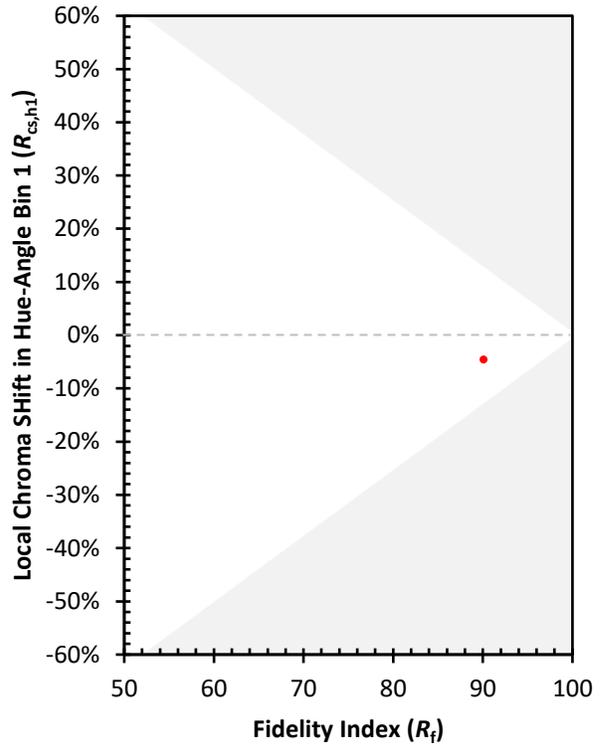
CES01 = 86	CES26 = 89	CES51 = 92	CES76 = 90
CES02 = 64	CES27 = 97	CES52 = 92	CES77 = 84
CES03 = 32	CES28 = 96	CES53 = 88	CES78 = 87
CES04 = 71	CES29 = 83	CES54 = 97	CES79 = 88
CES05 = 51	CES30 = 85	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 69
CES07 = 44	CES32 = 80	CES57 = 87	CES82 = 95
CES08 = 43	CES33 = 84	CES58 = 88	CES83 = 91
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 97
CES10 = 77	CES35 = 96	CES60 = 99	CES85 = 81
CES11 = 59	CES36 = 98	CES61 = 99	CES86 = 75
CES12 = 66	CES37 = 93	CES62 = 91	CES87 = 91
CES13 = 45	CES38 = 89	CES63 = 90	CES88 = 94
CES14 = 74	CES39 = 95	CES64 = 93	CES89 = 80
CES15 = 72	CES40 = 91	CES65 = 92	CES90 = 93
CES16 = 48	CES41 = 89	CES66 = 92	CES91 = 91
CES17 = 50	CES42 = 89	CES67 = 93	CES92 = 80
CES18 = 57	CES43 = 85	CES68 = 97	CES93 = 88
CES19 = 72	CES44 = 98	CES69 = 98	CES94 = 72
CES20 = 68	CES45 = 90	CES70 = 93	CES95 = 88
CES21 = 87	CES46 = 89	CES71 = 95	CES96 = 92
CES22 = 79	CES47 = 79	CES72 = 98	CES97 = 90
CES23 = 92	CES48 = 87	CES73 = 89	CES98 = 91
CES24 = 91	CES49 = 87	CES74 = 88	CES99 = 92
CES25 = 72	CES50 = 92	CES75 = 94	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)