Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P867979

Luminaire Tested: **MEM2-HSN-SA-110-740-U-T2U**

Issue Date: 08/21/2024

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P867979
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/21/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HSN-SA-110-740-U-T2U
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 110W 70CRI 4000K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source:	(30) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17013.7 lumens
Efficiency:	N/A
Efficacy:	150.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	113
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	7.77%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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REPORT NUMBER: P867979
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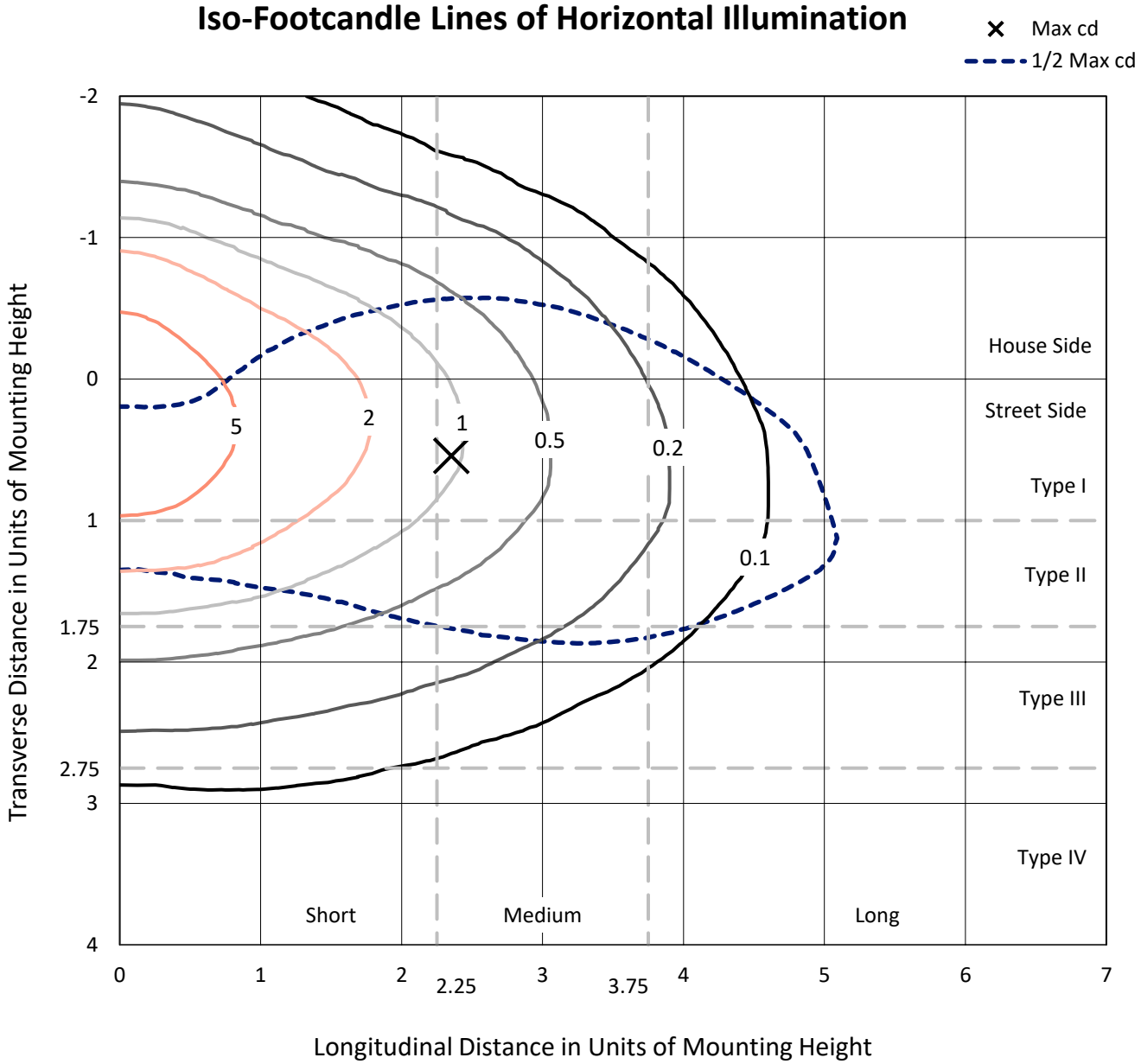
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
Type III - Medium - N/A

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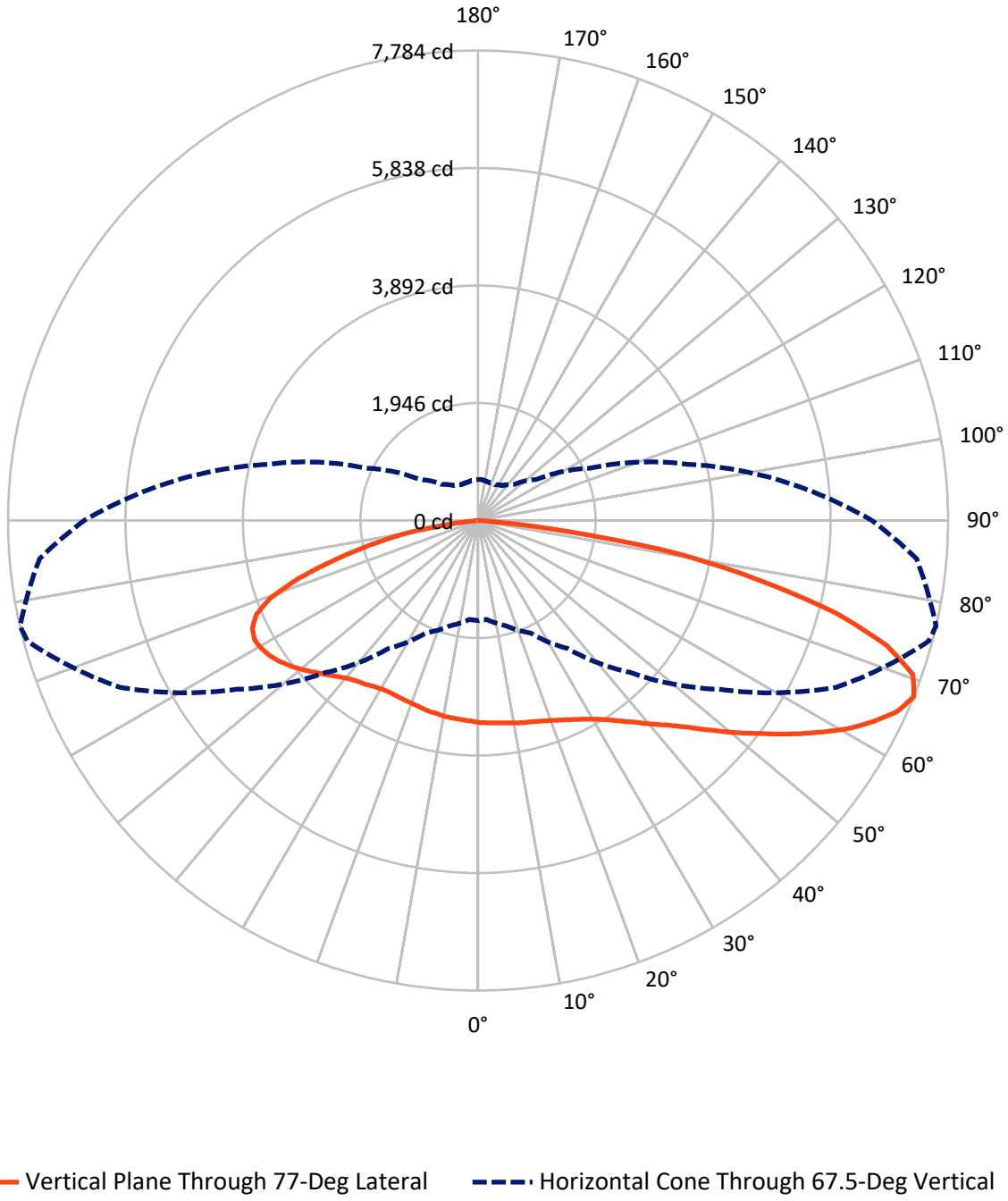
Luminous Intensity Polar Plot



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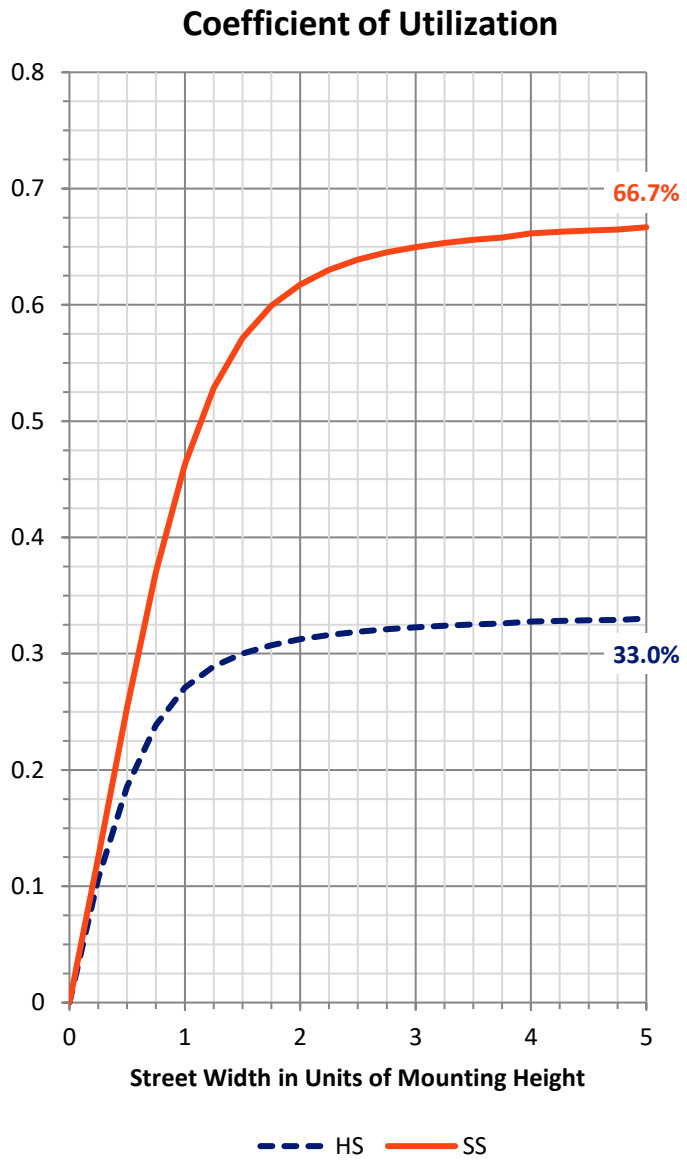
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5657.6	0.0	5657.6
	% Fixture	33.3	0.0	33.3
Street Side	Lumens	11356.1	0.0	11356.1
	% Fixture	66.7	0.0	66.7
Total	Lumens	17013.7	0.0	17013.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	1.9
10°-20°	975.1	5.7
20°-30°	1643.9	9.7
30°-40°	2332.8	13.7
40°-50°	2951.4	17.3
50°-60°	3233.2	19.0
60°-70°	3125.4	18.4
70°-80°	2102.0	12.4
80°-90°	328.5	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17013.7	100.0
0°-180°	17013.7	100.0



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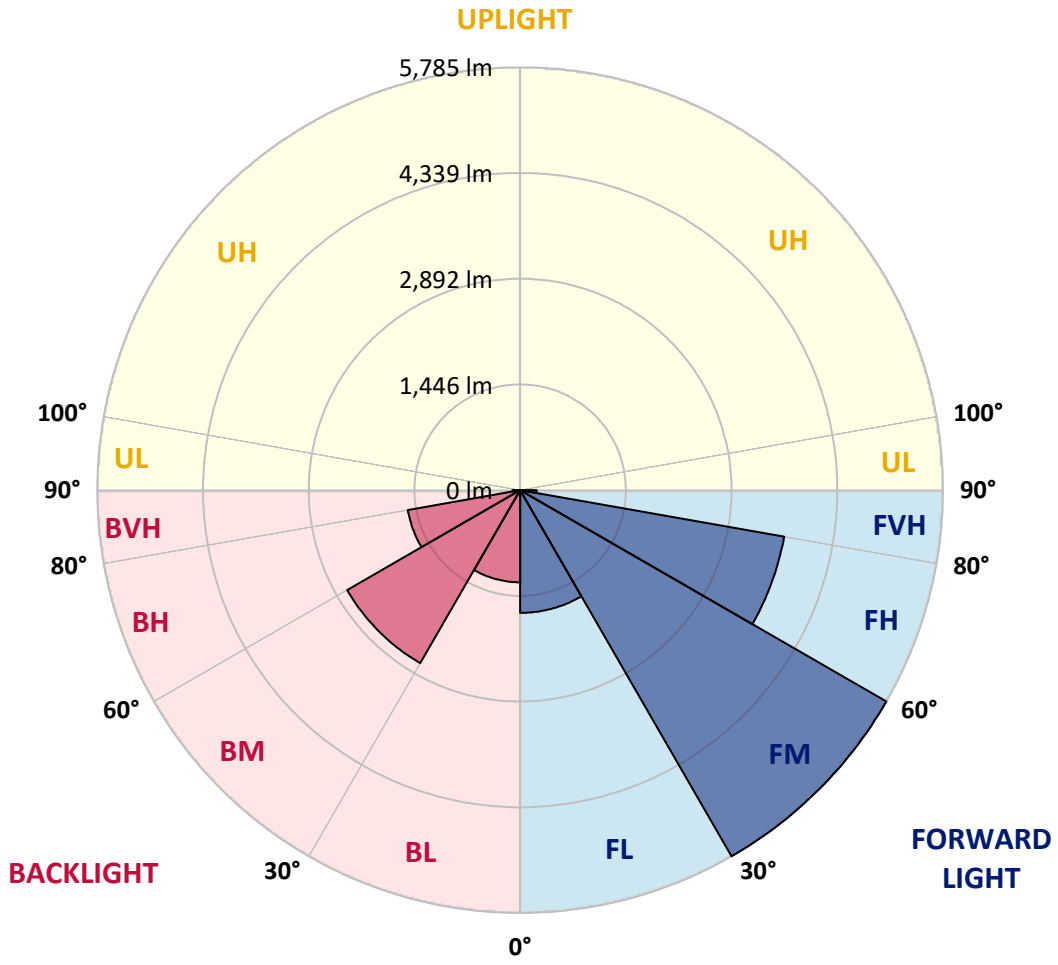
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1679.3	9.9			
FM	(30°-60°)	5784.9	34.0			
FH	(60°-80°)	3667.0	21.6			G2/5000
FVH	(80°-90°)	224.9	1.3			G2/225
BL	(0°-30°)	1261.2	7.4	B3/2500		
BM	(30°-60°)	2732.5	16.1	B3/5000		
BH	(60°-80°)	1560.4	9.2	B3/2500		G3/2500
BVH	(80°-90°)	103.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Medium



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REPORT NUMBER: P867979
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	*3345.1*	3345.1
2.5°	3419.1	3415.8	3398.9	3405.7	3385.5	3398.9	3378.7	3361.9	3358.5	*3355.2*	3358.5
5°	3526.8	3510.0	3493.2	3483.1	3466.2	3459.5	3425.8	3392.2	3372.0	*3368.6*	3361.9
7.5°	3651.3	3644.6	3621.0	3607.6	3560.5	3536.9	3489.8	3429.2	3398.9	*3385.5*	3368.6
10°	3779.2	3796.0	3765.7	3738.8	3685.0	3634.5	3553.7	3476.3	3415.8	*3409.0*	3372.0
12.5°	3937.4	3934.0	3913.8	3866.7	3802.8	3732.1	3634.5	3526.8	3446.0	*3432.6*	3378.7
15°	4078.7	4075.3	4048.4	4004.7	3920.5	3833.0	3701.8	3577.3	3476.3	*3456.1*	3392.2
17.5°	4210.0	4203.2	4186.4	4139.3	4035.0	3927.3	3799.4	3634.5	3513.3	*3489.8*	3402.3
20°	4324.4	4331.1	4310.9	4263.8	4166.2	4051.8	3890.3	3708.5	3560.5	*3533.5*	3432.6
22.5°	4448.9	4452.3	4442.2	4425.3	4300.8	4179.7	4004.7	3792.7	3614.3	*3587.4*	3466.2
25°	4580.1	4583.5	4590.2	4580.1	4438.8	4307.5	4122.5	3897.0	3688.3	*3651.3*	3513.3
27.5°	4731.6	4734.9	4748.4	4728.2	4576.8	4438.8	4253.7	4008.0	3765.7	*3725.4*	3553.7
30°	4903.2	4916.7	4906.6	4899.8	4724.8	4590.2	4384.9	4122.5	3866.7	*3816.2*	3624.4
32.5°	5108.5	5105.1	5084.9	5064.7	4886.4	4745.0	4533.0	4270.5	3991.2	*3934.0*	3738.8
35°	5256.6	5256.6	5226.3	5216.2	5051.3	4903.2	4694.6	4435.4	4132.6	*4078.7*	3860.0
37.5°	5347.4	5360.9	5337.3	5344.1	5185.9	5047.9	4856.1	4603.7	4287.4	*4240.2*	4008.0
40°	5381.1	5414.7	5434.9	5461.8	5303.7	5185.9	5027.7	4785.4	4485.9	*4432.1*	4186.4
42.5°	5387.8	5438.3	5509.0	5566.2	5387.8	5290.2	5192.6	4970.5	4681.1	*4634.0*	4381.6
45°	5354.1	5330.6	5502.2	5509.0	5434.9	5374.3	5337.3	5192.6	4963.8	*4886.4*	4623.9
47.5°	5098.4	5071.5	5118.6	5334.0	5377.7	5411.4	5485.4	5451.7	5246.5	*5185.9*	4903.2
50°	4684.5	4671.0	4859.5	5091.7	5236.4	5408.0	5606.5	5700.8	5559.4	*5522.4*	5256.6
52.5°	4001.3	3964.3	4347.9	4798.9	5051.3	5374.3	5690.7	5956.5	5912.8	*5858.9*	5559.4
55°	3567.2	3567.2	3826.3	4388.3	4815.7	5253.2	5744.5	6225.8	6303.2	*6242.6*	5906.1
57.5°	3102.8	3139.8	3409.0	3796.0	4475.8	5031.1	5737.8	6451.2	6680.1	*6622.9*	6272.9
60°	2705.7	2736.0	2890.8	3281.1	4075.3	4738.3	5663.8	6636.3	7030.1	*7009.9*	6595.9
62.5°	2301.8	2338.9	2463.4	2830.2	3547.0	4401.8	5509.0	6737.3	7359.9	*7339.7*	6922.4
65°	1978.8	1982.1	2106.7	2412.9	3018.6	3994.6	5236.4	6717.1	7615.6	*7629.1*	7198.3
67.5°	*1655.7*	*1645.6*	*1807.2*	*2056.2*	*2587.9*	*3557.1*	*4872.9*	*6538.7*	*7723.3*	*7783.9*	*7289.2*
70°	1218.2	1231.7	1457.2	1733.1	2187.4	3052.3	4364.8	6192.1	7548.3	*7642.5*	7080.5
72.5°	915.4	942.3	1161.0	1447.1	1827.3	2547.5	3809.5	5589.7	7060.3	*7073.8*	6444.5
75°	743.7	750.5	945.6	1201.4	1497.5	2042.7	3059.0	4667.6	5970.0	*6124.8*	5475.3
77.5°	632.7	625.9	720.2	969.2	1208.1	1632.2	2305.2	3550.4	4687.8	*4758.5*	4287.4
80°	538.4	535.1	568.7	784.1	945.6	1164.4	1578.3	2473.5	3345.1	*3422.5*	3045.6
82.5°	282.7	302.9	296.1	484.6	535.1	612.5	757.2	1124.0	1460.5	*1480.7*	1400.0
85°	13.5	13.5	13.5	20.2	33.7	53.8	104.3	104.3	114.4	*218.7*	249.0
87.5°	3.4	3.4	6.7	6.7	6.7	10.1	10.1	13.5	13.5	*13.5*	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0

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CATALOG NUMBER: MEM2-HSN-SA-110-740-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1	3345.1
2.5°	3351.8	3338.4	3318.2	3321.5	3318.2	3318.2	3301.3	3287.9	3284.5	3291.2	3304.7
5°	3355.2	3335.0	3304.7	3294.6	3284.5	3277.8	3250.9	3230.7	3220.6	3227.3	3230.7
7.5°	3355.2	3324.9	3291.2	3271.0	3244.1	3223.9	3193.6	3166.7	3153.3	3156.6	3163.4
10°	3348.4	3314.8	3287.9	3247.5	3203.7	3180.2	3133.1	3099.4	3082.6	3086.0	3069.1
12.5°	3348.4	3311.4	3257.6	3220.6	3160.0	3109.5	3072.5	3035.5	3022.0	3008.6	3001.8
15°	3351.8	3304.7	3250.9	3173.5	3102.8	3048.9	3001.8	2978.3	2958.1	2951.3	2954.7
17.5°	3351.8	3304.7	3223.9	3133.1	3052.3	2985.0	2944.6	2917.7	2911.0	2904.2	2904.2
20°	3368.6	3308.1	3200.4	3092.7	2991.7	2921.1	2884.0	2867.2	2867.2	2857.1	2857.1
22.5°	3395.6	3314.8	3186.9	3059.0	2941.2	2863.8	2823.5	2803.3	2813.4	2806.6	2803.3
25°	3425.8	3338.4	3170.1	3011.9	2873.9	2793.2	2752.8	2739.3	2736.0	2719.1	2742.7
27.5°	3449.4	3355.2	3160.0	2964.8	2813.4	2719.1	2668.7	2645.1	2628.3	2635.0	2628.3
30°	3513.3	3402.3	3163.4	2924.4	2746.1	2631.6	2571.1	2544.1	2537.4	2537.4	2537.4
32.5°	3600.8	3462.9	3186.9	2907.6	2682.1	2547.5	2473.5	2446.6	2439.8	2426.4	2433.1
35°	3711.9	3553.7	3223.9	2880.7	2631.6	2449.9	2369.2	2332.1	2322.0	2308.6	2308.6
37.5°	3836.4	3644.6	3250.9	2867.2	2564.3	2349.0	2258.1	2211.0	2204.3	2190.8	2197.5
40°	3994.6	3769.1	3294.6	2840.3	2486.9	2258.1	2136.9	2059.5	2076.4	2083.1	2096.6
42.5°	4172.9	3927.3	3361.9	2813.4	2426.4	2163.9	1985.5	1908.1	1928.3	1921.6	1935.0
45°	4415.2	4112.4	3446.0	2803.3	2352.3	2049.5	1830.7	1743.2	1736.5	1726.4	1733.1
47.5°	4667.6	4334.5	3526.8	2783.1	2271.6	1908.1	1655.7	1544.7	1517.7	1504.3	1490.8
50°	4930.1	4556.6	3621.0	2769.6	2163.9	1749.9	1480.7	1352.8	1302.4	1285.5	1268.7
52.5°	5226.3	4795.5	3701.8	2736.0	2046.1	1585.0	1322.6	1177.8	1120.6	1087.0	1090.3
55°	5539.2	5014.3	3775.8	2695.6	1911.5	1430.2	1164.4	1043.2	986.0	975.9	975.9
57.5°	5828.7	5239.7	3829.7	2624.9	1776.9	1278.8	1033.1	928.8	901.9	915.4	915.4
60°	6124.8	5421.5	3856.6	2547.5	1638.9	1150.9	942.3	858.1	844.7	871.6	875.0
62.5°	6363.7	5566.2	3849.9	2439.8	1487.5	1039.9	854.8	787.5	794.2	841.3	851.4
65°	6535.4	5636.8	3765.7	2278.3	1342.7	942.3	777.4	713.4	713.4	747.1	757.2
67.5°	*6521.9*	*5546.0*	*3597.5*	*2052.8*	*1187.9*	*844.7*	*706.7*	*656.2*	*656.2*	*679.8*	*676.4*
70°	6245.9	5233.0	3277.8	1780.2	1036.5	760.6	646.1	609.1	605.7	615.8	612.5
72.5°	5583.0	4597.0	2779.7	1470.6	895.2	676.4	585.6	551.9	545.2	531.7	521.6
75°	4607.1	3775.8	2170.6	1171.1	757.2	595.7	528.3	498.1	471.1	488.0	477.9
77.5°	3573.9	2897.5	1615.3	908.6	615.8	518.3	471.1	437.5	430.8	491.3	471.1
80°	2608.1	2002.3	1140.8	649.5	477.9	420.7	393.7	366.8	464.4	622.6	619.2
82.5°	1157.7	965.8	521.6	309.6	222.1	185.1	154.8	175.0	292.8	286.0	296.1
85°	104.3	107.7	57.2	37.0	23.6	20.2	13.5	13.5	10.1	10.1	10.1
87.5°	13.5	13.5	10.1	10.1	6.7	6.7	6.7	6.7	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-5

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-30-740-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-30-740-U-5WQ-2

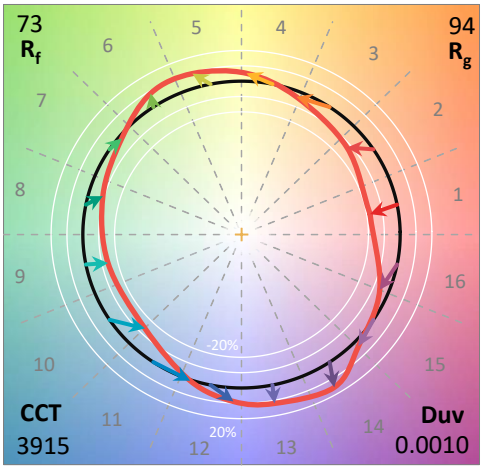
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-5
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-30-740-U-5WQ-2**
Description:	Epic Modern Light Square 30W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	3915	CRI (Ra):	71.0		
CIE u':	0.2262	R1:	67.6	R9:	-38.4
CIE v':	0.5044	R2:	78.3	R10:	48.9
Duv:	0.0010	R3:	87.1	R11:	65.3
CIE x:	0.3850	R4:	69.7	R12:	40.4
CIE y:	0.3816	R5:	67.4	R13:	69.3
CIE z:	0.2334	R6:	69.3	R14:	92.6
Peak Wavelength (nm):	449	R7:	79.7	R15:	59.9
Dominant Wavelength (nm):	578	R8:	48.7		
Purity:	30.05482				
Rf:	73.2				
Rg:	93.9				



Test Conditions

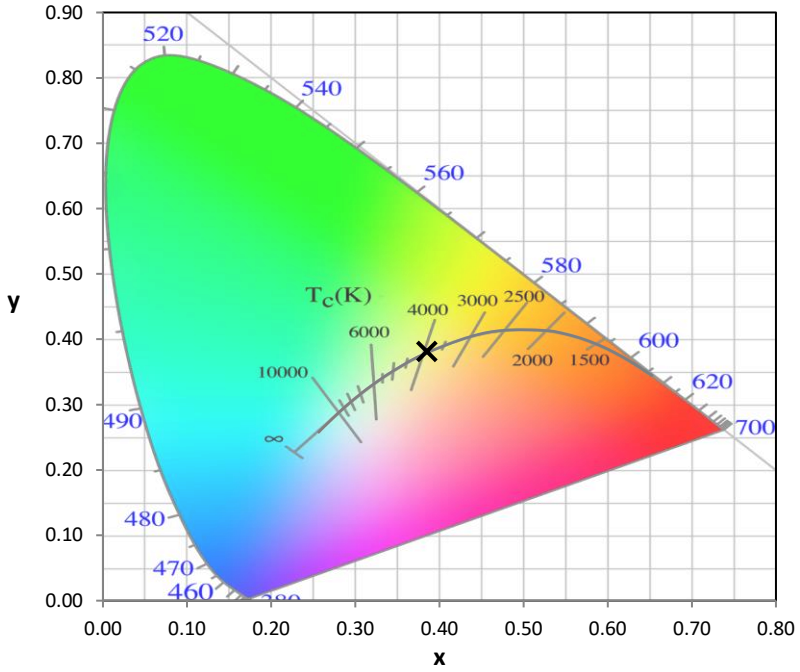
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-5

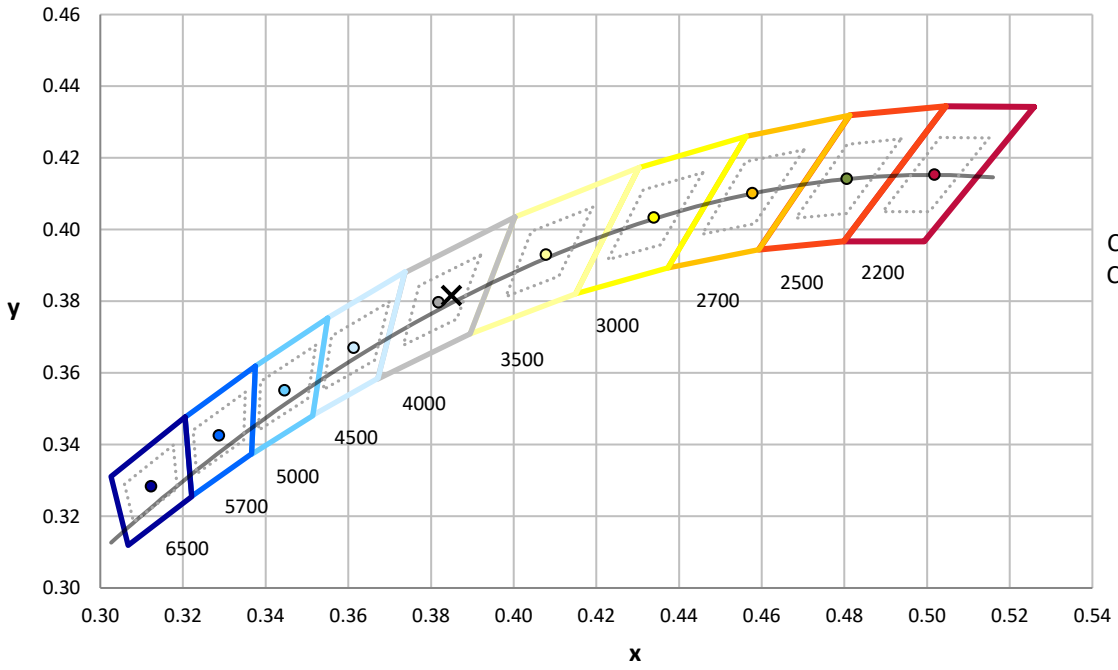
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-157-5

CIE 1931 Chromaticity Diagram



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

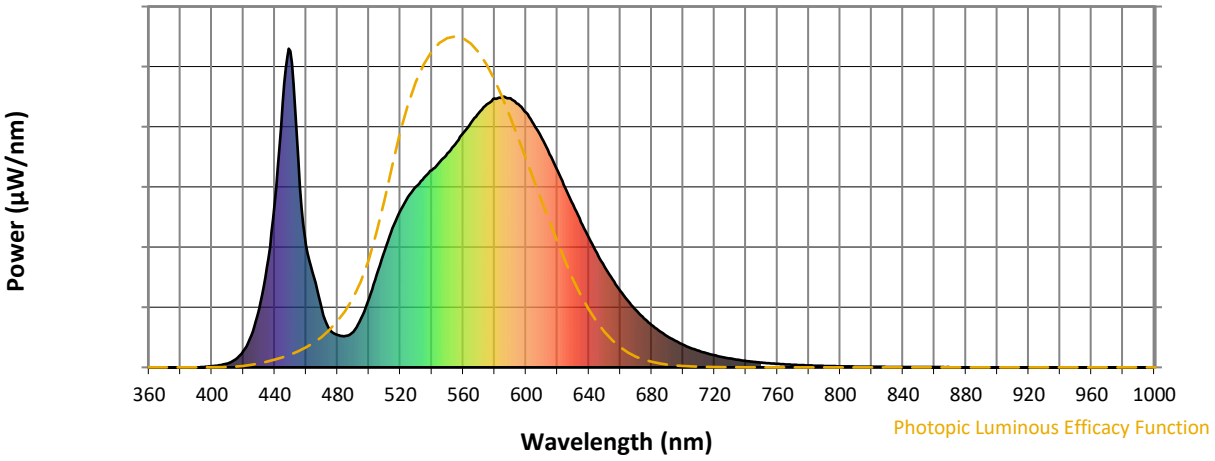


CCT = 3915K
CIE x = 0.3850
CIE y = 0.3816
Duv = 0.0010

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-5

Photopic Flux vs. Wavelength

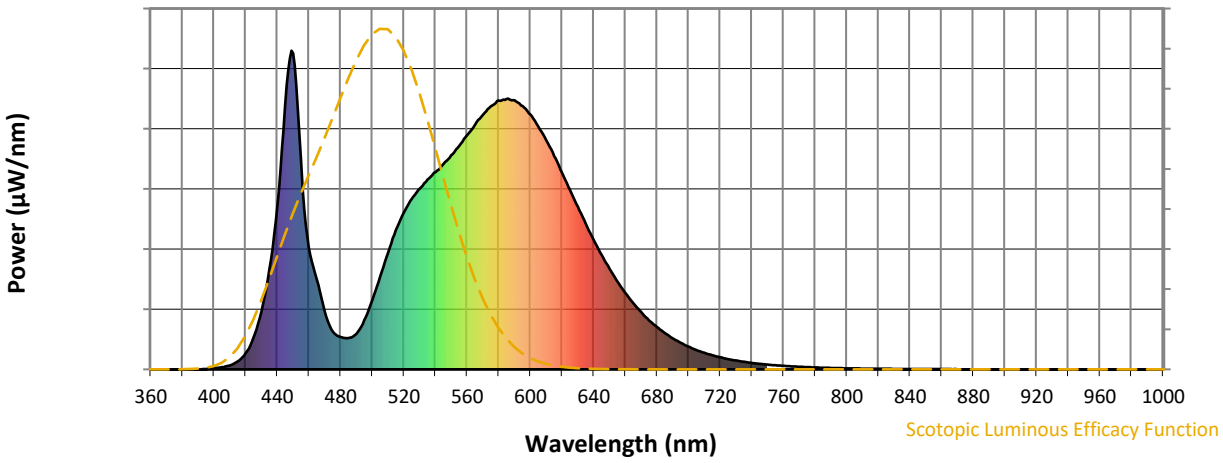


Photopic Lumens: NR

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	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

REPORT NUMBER: SP1-2407-157-5

Scotopic Flux vs. Wavelength

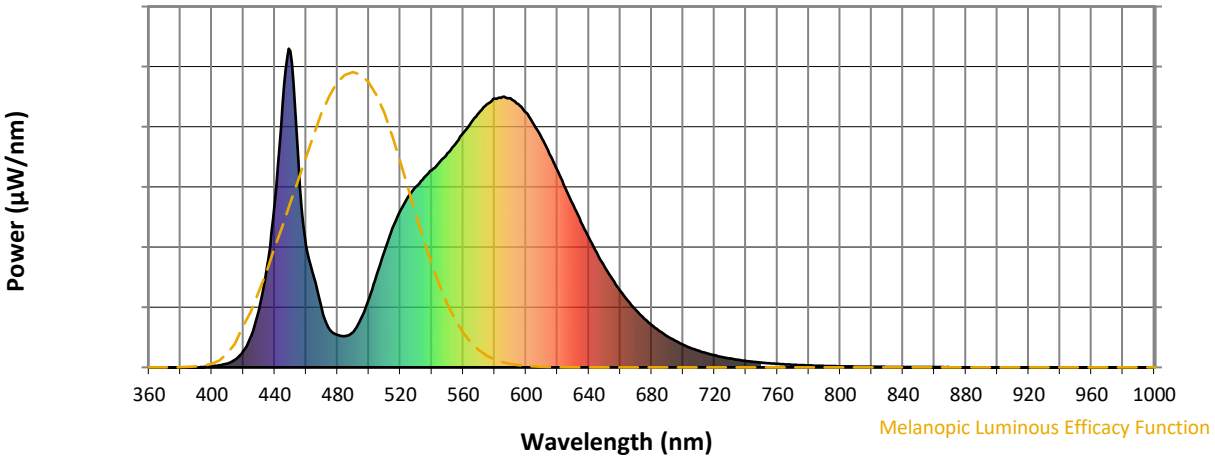


Scotopic Lumens: NR **S/P: 1.49**

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	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

REPORT NUMBER: SP1-2407-157-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

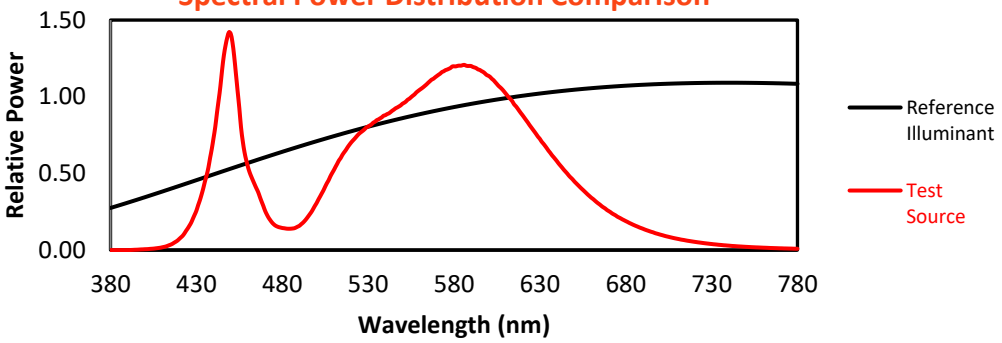
REPORT NUMBER: SP1-2407-157-5

TM-30-18

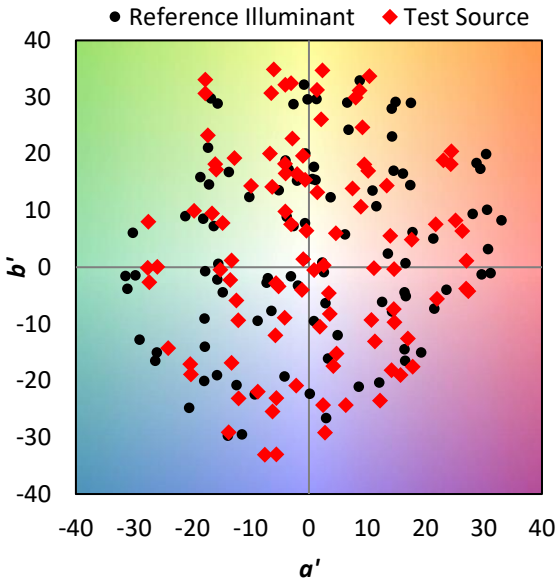
Summary

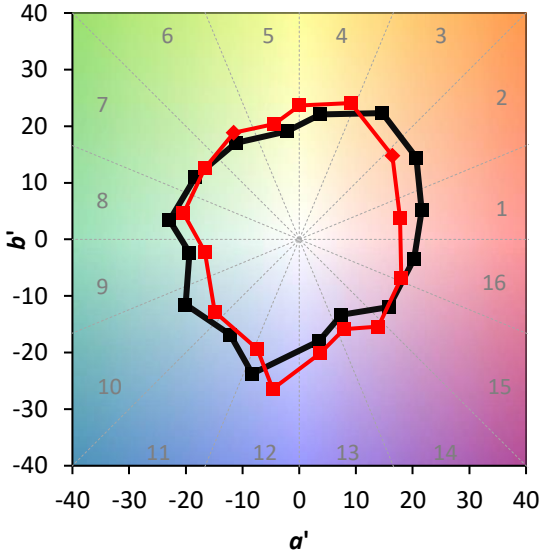
R_f = 73.2
R_g = 93.9
CIE R_a = 71.0
R_9 = -38.4

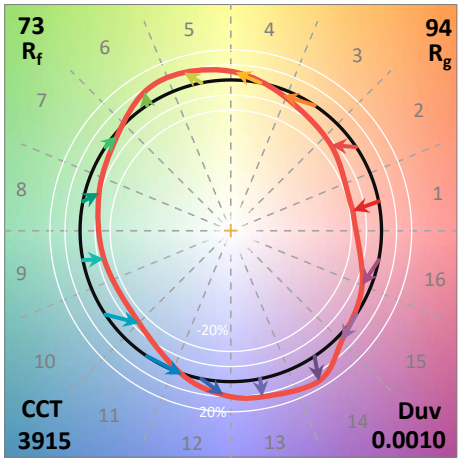
Spectral Power Distribution Comparison

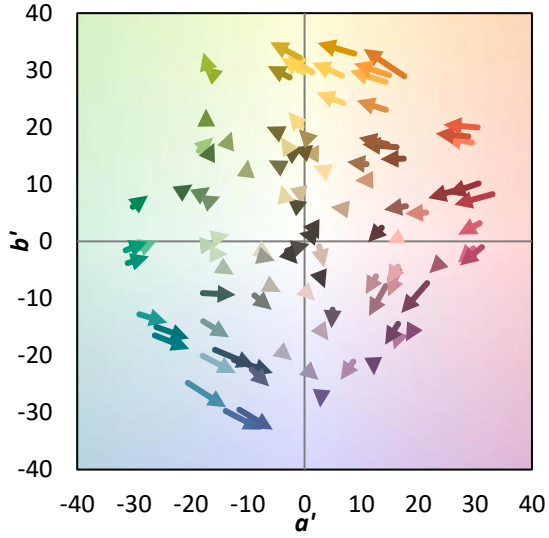


Color Vector Graphics







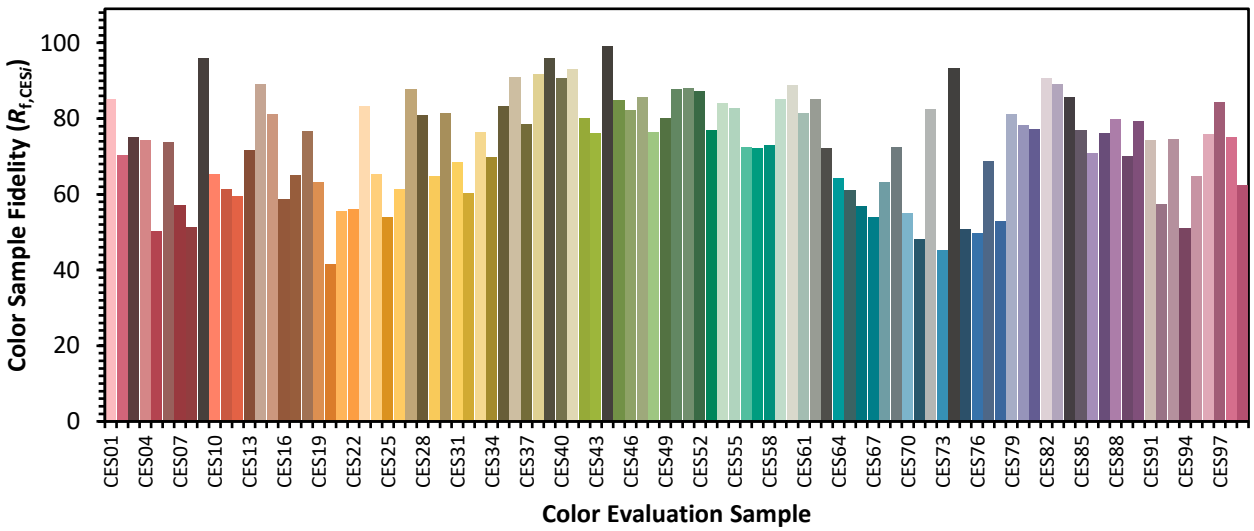


REPORT NUMBER: SP1-2407-157-5

TM-30-18

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

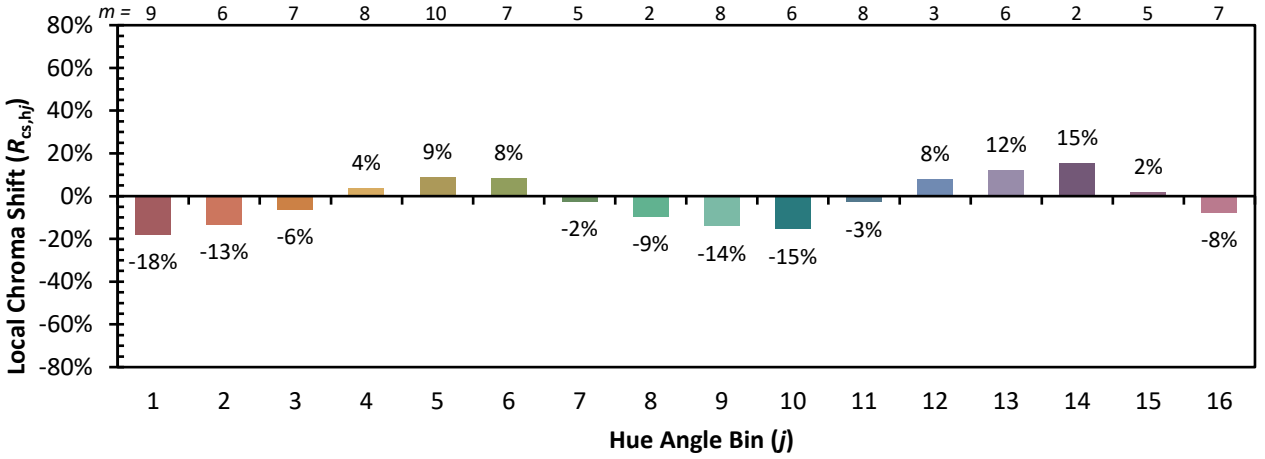
CES01 = 85	CES26 = 61	CES51 = 88	CES76 = 50
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 69
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 53
CES04 = 70	CES29 = 65	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 81	CES55 = 83	CES80 = 78
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 60	CES57 = 72	CES82 = 91
CES08 = 39	CES33 = 76	CES58 = 73	CES83 = 89
CES09 = 29	CES34 = 70	CES59 = 85	CES84 = 86
CES10 = 74	CES35 = 83	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 91	CES61 = 81	CES86 = 71
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 76
CES13 = 42	CES38 = 92	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 64	CES89 = 70
CES15 = 71	CES40 = 91	CES65 = 61	CES90 = 79
CES16 = 46	CES41 = 93	CES66 = 57	CES91 = 74
CES17 = 49	CES42 = 80	CES67 = 54	CES92 = 57
CES18 = 56	CES43 = 76	CES68 = 63	CES93 = 74
CES19 = 72	CES44 = 99	CES69 = 73	CES94 = 51
CES20 = 65	CES45 = 85	CES70 = 55	CES95 = 65
CES21 = 86	CES46 = 82	CES71 = 48	CES96 = 76
CES22 = 78	CES47 = 86	CES72 = 83	CES97 = 84
CES23 = 92	CES48 = 77	CES73 = 45	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 93	CES99 = 62
CES25 = 72	CES50 = 88	CES75 = 51	

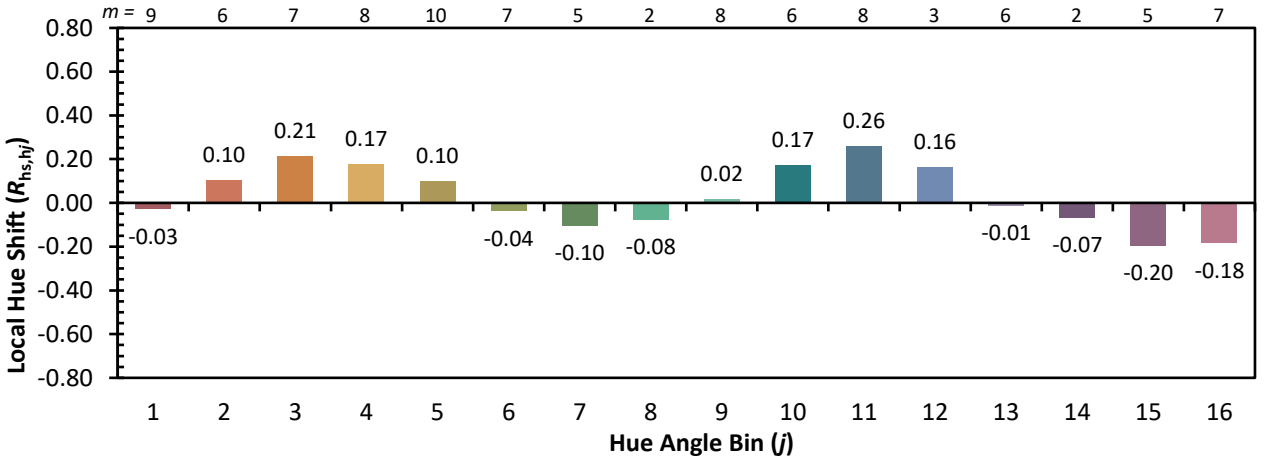


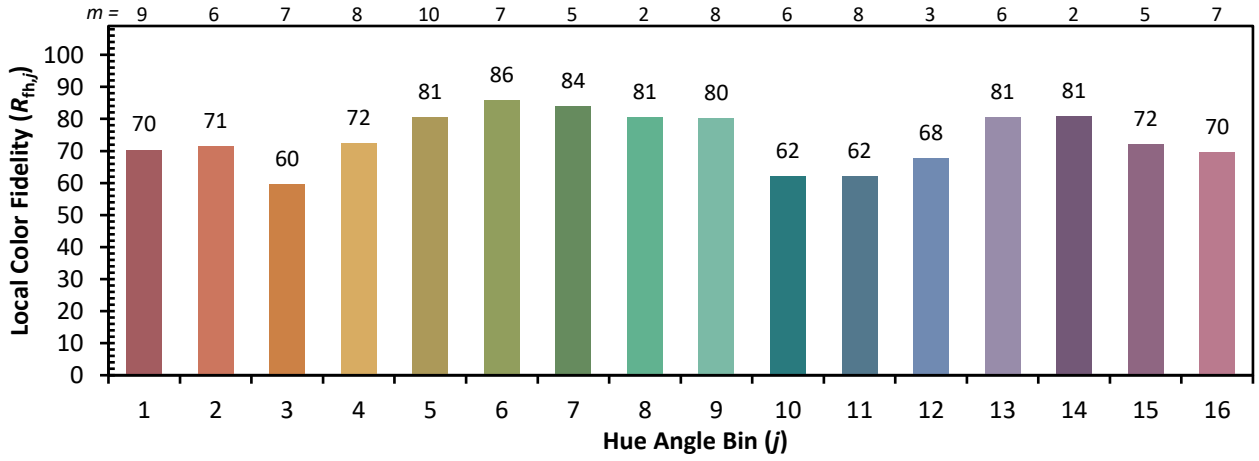
REPORT NUMBER: SP1-2407-157-5

TM-30-18

Color Rendition by Hue-Angle Bin



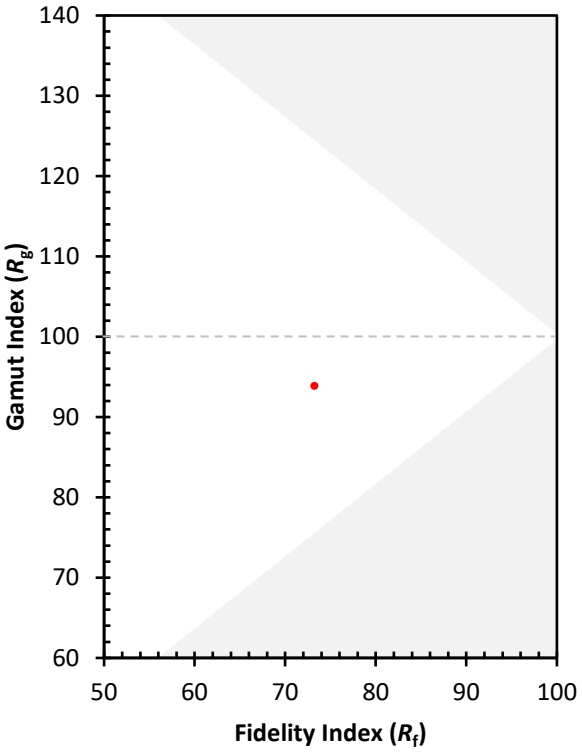


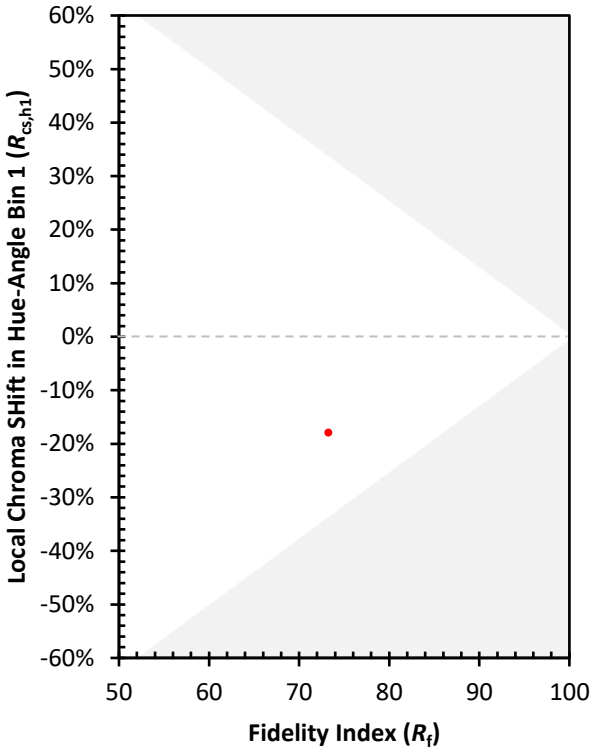


REPORT NUMBER: SP1-2407-157-5

TM-30-18

Measure Comparisons





(END OF REPORT)