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: P867970

Luminaire Tested: **MEM2-HSN-SA-90-730-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:	P867970
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/21/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HSN-SA-90-730-U-T2U
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 90W 70CRI 3000K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source:	(20) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12206.1 lumens
Efficiency:	N/A
Efficacy:	135.6 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G3

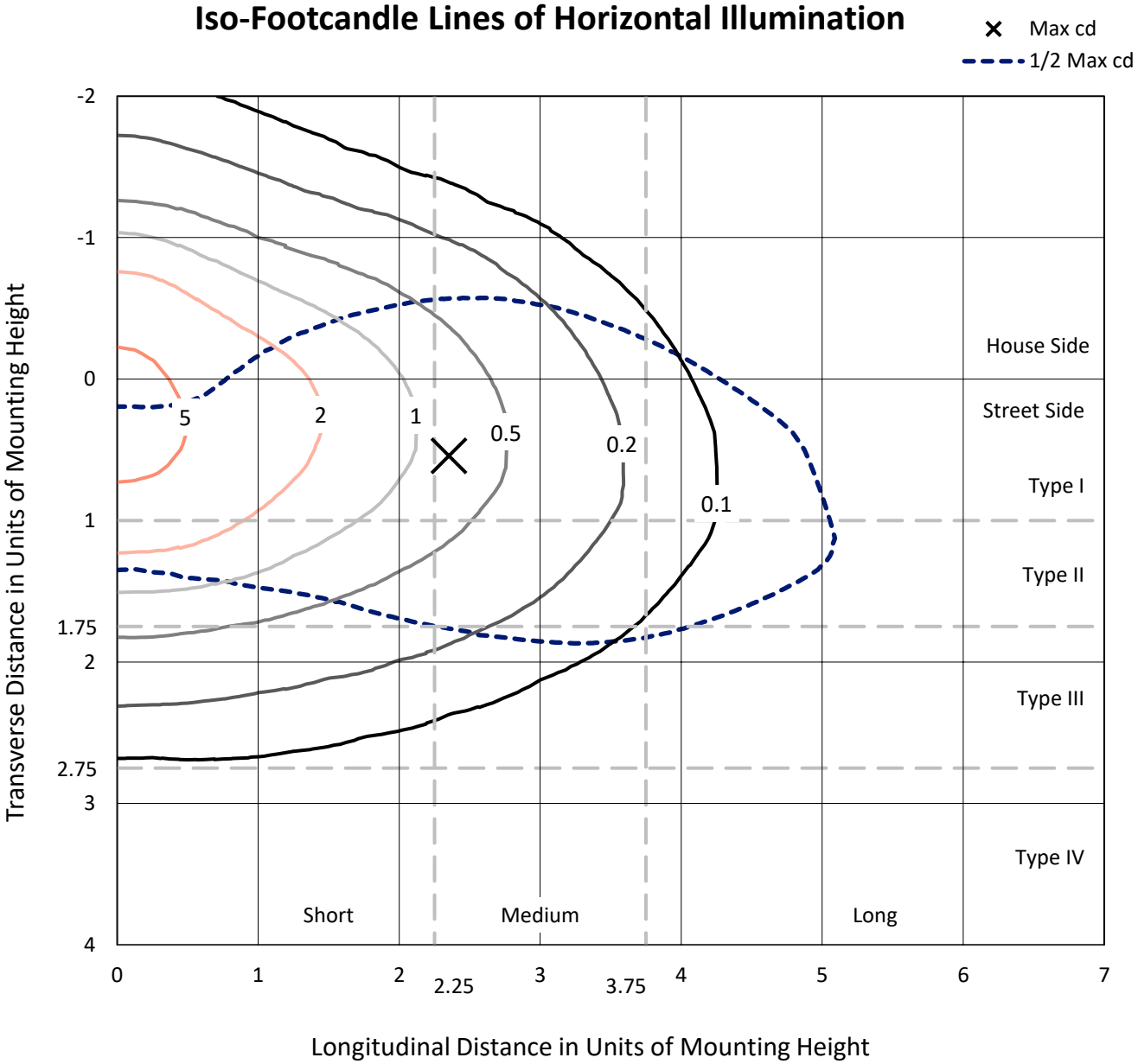
Input Watts (W):	90
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.20%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P867970
CATALOG NUMBER: MEM2-HSN-SA-90-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination



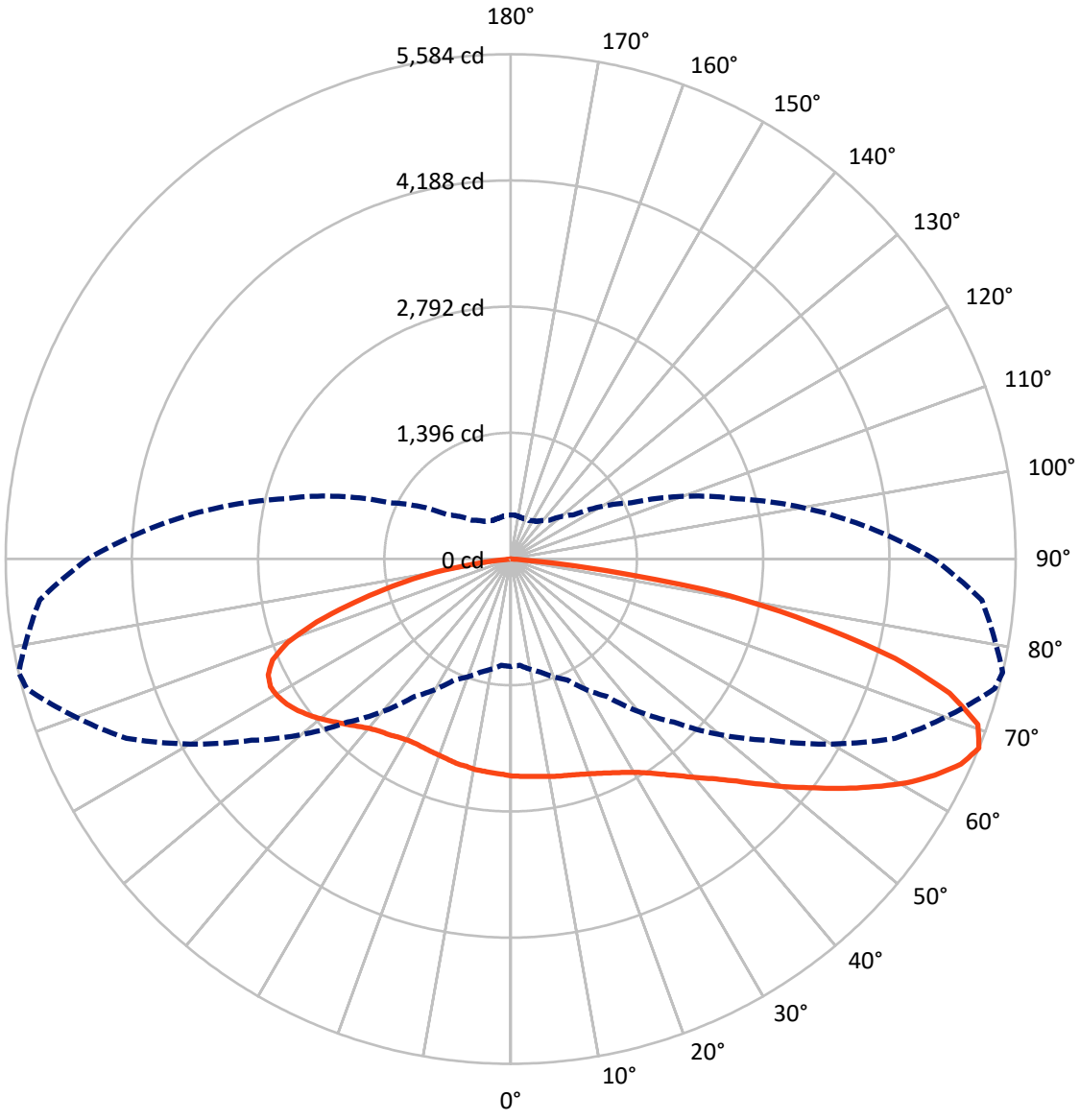
Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
Type III - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P867970
CATALOG NUMBER: MEM2-HSN-SA-90-730-U-T2U

Luminous Intensity Polar Plot



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

Scaled Data Report

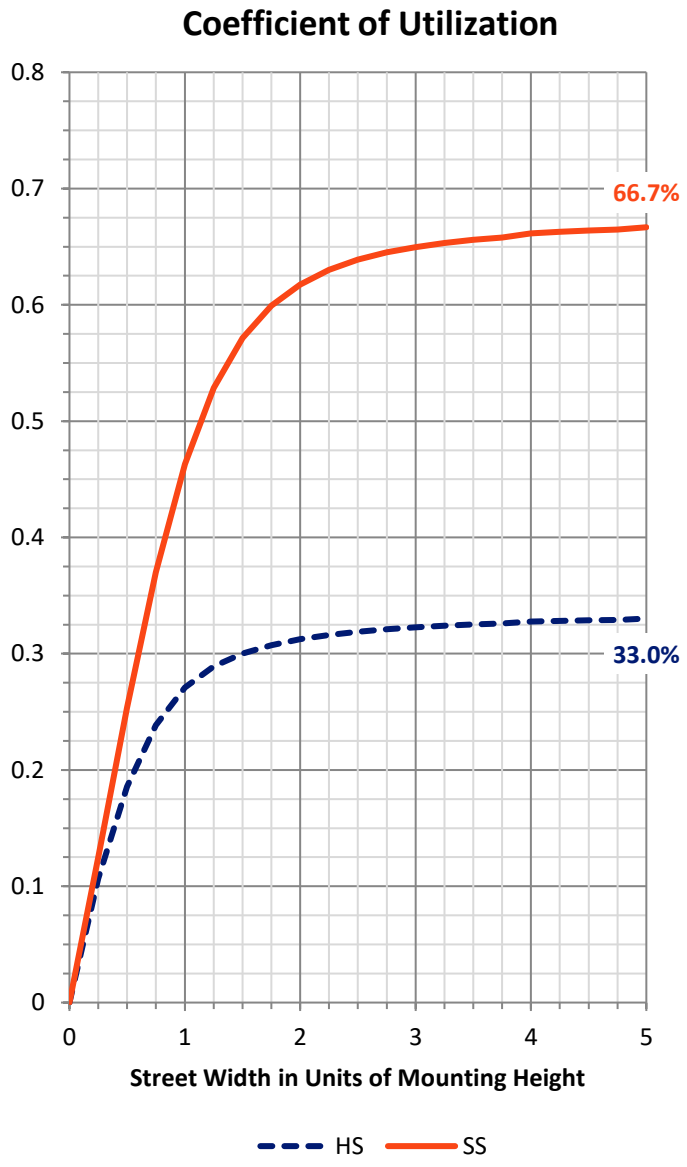
REPORT NUMBER: P867970
CATALOG NUMBER: MEM2-HSN-SA-90-730-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4058.9	0.0	4058.9
	% Fixture	33.3	0.0	33.3
Street Side	Lumens	8147.2	0.0	8147.2
	% Fixture	66.7	0.0	66.7
Total	Lumens	12206.1	0.0	12206.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.9
10°-20°	699.5	5.7
20°-30°	1179.4	9.7
30°-40°	1673.6	13.7
40°-50°	2117.4	17.3
50°-60°	2319.6	19.0
60°-70°	2242.2	18.4
70°-80°	1508.0	12.4
80°-90°	235.7	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°	12206.1	100.0
0°-180°	12206.1	100.0



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

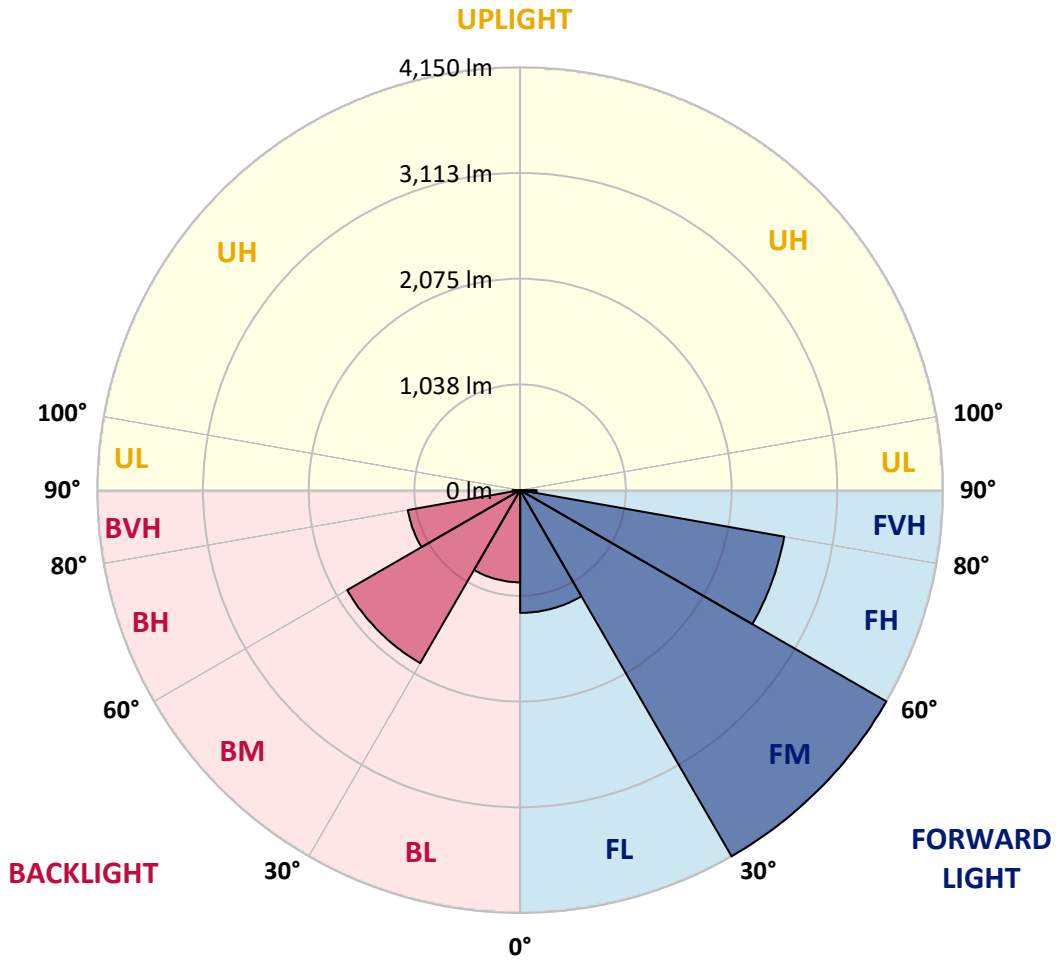
Scaled Data Report

REPORT NUMBER: P867970
CATALOG NUMBER: MEM2-HSN-SA-90-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1204.8	9.9			
FM	(30°-60°)	4150.2	34.0			
FH	(60°-80°)	2630.8	21.6			G2/5000
FVH	(80°-90°)	161.4	1.3			G2/225
BL	(0°-30°)	904.8	7.4	B2/1000		
BM	(30°-60°)	1960.4	16.1	B2/2500		
BH	(60°-80°)	1119.5	9.2	B3/2500		G3/2500
BVH	(80°-90°)	74.3	0.6			G1/100
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



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

Scaled Data Report

REPORT NUMBER: P867970
CATALOG NUMBER: MEM2-HSN-SA-90-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	*2399.9*	2399.9
2.5°	2453.0	2450.6	2438.5	2443.3	2428.8	2438.5	2424.0	2411.9	2409.5	*2407.1*	2409.5
5°	2530.2	2518.2	2506.1	2498.8	2486.8	2481.9	2457.8	2433.7	2419.2	*2416.8*	2411.9
7.5°	2619.6	2614.7	2597.8	2588.2	2554.4	2537.5	2503.7	2460.2	2438.5	*2428.8*	2416.8
10°	2711.3	2723.4	2701.6	2682.3	2643.7	2607.5	2549.5	2494.0	2450.6	*2445.7*	2419.2
12.5°	2824.8	2822.4	2807.9	2774.1	2728.2	2677.5	2607.5	2530.2	2472.3	*2462.6*	2424.0
15°	2926.2	2923.8	2904.4	2873.1	2812.7	2749.9	2655.8	2566.4	2494.0	*2479.5*	2433.7
17.5°	3020.3	3015.5	3003.4	2969.6	2894.8	2817.5	2725.8	2607.5	2520.6	*2503.7*	2440.9
20°	3102.4	3107.3	3092.8	3059.0	2988.9	2906.9	2791.0	2660.6	2554.4	*2535.1*	2462.6
22.5°	3191.8	3194.2	3186.9	3174.9	3085.5	2998.6	2873.1	2721.0	2593.0	*2573.7*	2486.8
25°	3285.9	3288.3	3293.2	3285.9	3184.5	3090.4	2957.6	2795.8	2646.1	*2619.6*	2520.6
27.5°	3394.6	3397.0	3406.6	3392.1	3283.5	3184.5	3051.7	2875.5	2701.6	*2672.7*	2549.5
30°	3517.7	3527.3	3520.1	3515.3	3389.7	3293.2	3145.9	2957.6	2774.1	*2737.9*	2600.2
32.5°	3665.0	3662.5	3648.1	3633.6	3505.6	3404.2	3252.1	3063.8	2863.4	*2822.4*	2682.3
35°	3771.2	3771.2	3749.5	3742.2	3623.9	3517.7	3368.0	3182.1	2964.8	*2926.2*	2769.2
37.5°	3836.4	3846.0	3829.1	3834.0	3720.5	3621.5	3483.9	3302.8	3075.9	*3042.1*	2875.5
40°	3860.5	3884.7	3899.2	3918.5	3805.0	3720.5	3607.0	3433.2	3218.3	*3179.7*	3003.4
42.5°	3865.4	3901.6	3952.3	3993.3	3865.4	3795.3	3725.3	3566.0	3358.3	*3324.5*	3143.5
45°	3841.2	3824.3	3947.4	3952.3	3899.2	3855.7	3829.1	3725.3	3561.1	*3505.6*	3317.3
47.5°	3657.7	3638.4	3672.2	3826.7	3858.1	3882.3	3935.4	3911.2	3764.0	*3720.5*	3517.7
50°	3360.8	3351.1	3486.3	3652.9	3756.7	3879.8	4022.3	4089.9	3988.5	*3961.9*	3771.2
52.5°	2870.6	2844.1	3119.3	3442.8	3623.9	3855.7	4082.6	4273.4	4242.0	*4203.4*	3988.5
55°	2559.2	2559.2	2745.1	3148.3	3454.9	3768.8	4121.3	4466.5	4522.1	*4478.6*	4237.2
57.5°	2226.0	2252.6	2445.7	2723.4	3211.1	3609.4	4116.4	4628.3	4792.5	*4751.4*	4500.3
60°	1941.1	1962.9	2073.9	2354.0	2923.8	3399.4	4063.3	4761.1	5043.5	*5029.1*	4732.1
62.5°	1651.4	1678.0	1767.3	2030.5	2544.7	3158.0	3952.3	4833.5	5280.2	*5265.7*	4966.3
65°	1419.6	1422.0	1511.4	1731.1	2165.7	2865.8	3756.7	4819.0	5463.6	*5473.3*	5164.3
67.5°	*1187.9*	*1180.6*	*1296.5*	*1475.2*	*1856.6*	*2552.0*	*3496.0*	*4691.1*	*5540.9*	*5584.4*	*5229.5*
70°	874.0	883.6	1045.4	1243.4	1569.3	2189.8	3131.4	4442.4	5415.4	*5483.0*	5079.8
72.5°	656.7	676.0	832.9	1038.2	1311.0	1827.7	2733.0	4010.2	5065.3	*5074.9*	4623.5
75°	533.6	538.4	678.4	861.9	1074.4	1465.5	2194.6	3348.7	4283.0	*4394.1*	3928.1
77.5°	453.9	449.1	516.7	695.3	866.7	1171.0	1653.8	2547.1	3363.2	*3413.9*	3075.9
80°	386.3	383.9	408.0	562.5	678.4	835.4	1132.3	1774.5	2399.9	*2455.4*	2185.0
82.5°	202.8	217.3	212.5	347.7	383.9	439.4	543.2	806.4	1047.8	*1062.3*	1004.4
85°	9.7	9.7	9.7	14.5	24.1	38.6	74.8	74.8	82.1	*156.9*	178.7
87.5°	2.4	2.4	4.8	4.8	4.8	7.2	7.2	9.7	9.7	*9.7*	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0

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

Scaled Data Report

REPORT NUMBER: P867970
CATALOG NUMBER: MEM2-HSN-SA-90-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9	2399.9
2.5°	2404.7	2395.0	2380.5	2382.9	2380.5	2380.5	2368.5	2358.8	2356.4	2361.2	2370.9
5°	2407.1	2392.6	2370.9	2363.6	2356.4	2351.6	2332.2	2317.8	2310.5	2315.3	2317.8
7.5°	2407.1	2385.4	2361.2	2346.7	2327.4	2312.9	2291.2	2271.9	2262.2	2264.6	2269.5
10°	2402.3	2378.1	2358.8	2329.8	2298.4	2281.5	2247.7	2223.6	2211.5	2213.9	2201.9
12.5°	2402.3	2375.7	2337.1	2310.5	2267.1	2230.8	2204.3	2177.7	2168.1	2158.4	2153.6
15°	2404.7	2370.9	2332.2	2276.7	2226.0	2187.4	2153.6	2136.7	2122.2	2117.4	2119.8
17.5°	2404.7	2370.9	2312.9	2247.7	2189.8	2141.5	2112.5	2093.2	2088.4	2083.6	2083.6
20°	2416.8	2373.3	2296.0	2218.8	2146.3	2095.6	2069.1	2057.0	2057.0	2049.8	2049.8
22.5°	2436.1	2378.1	2286.4	2194.6	2110.1	2054.6	2025.6	2011.1	2018.4	2013.6	2011.1
25°	2457.8	2395.0	2274.3	2160.8	2061.8	2003.9	1974.9	1965.3	1962.9	1950.8	1967.7
27.5°	2474.7	2407.1	2267.1	2127.0	2018.4	1950.8	1914.6	1897.7	1885.6	1890.4	1885.6
30°	2520.6	2440.9	2269.5	2098.1	1970.1	1888.0	1844.6	1825.2	1820.4	1820.4	1820.4
32.5°	2583.3	2484.4	2286.4	2086.0	1924.2	1827.7	1774.5	1755.2	1750.4	1740.7	1745.6
35°	2663.0	2549.5	2312.9	2066.7	1888.0	1757.6	1699.7	1673.1	1665.9	1656.2	1656.2
37.5°	2752.3	2614.7	2332.2	2057.0	1839.7	1685.2	1620.0	1586.2	1581.4	1571.7	1576.6
40°	2865.8	2704.1	2363.6	2037.7	1784.2	1620.0	1533.1	1477.6	1489.6	1494.5	1504.1
42.5°	2993.8	2817.5	2411.9	2018.4	1740.7	1552.4	1424.5	1368.9	1383.4	1378.6	1388.2
45°	3167.6	2950.3	2472.3	2011.1	1687.6	1470.3	1313.4	1250.6	1245.8	1238.6	1243.4
47.5°	3348.7	3109.7	2530.2	1996.7	1629.7	1368.9	1187.9	1108.2	1088.9	1079.2	1069.6
50°	3537.0	3269.0	2597.8	1987.0	1552.4	1255.5	1062.3	970.6	934.3	922.3	910.2
52.5°	3749.5	3440.4	2655.8	1962.9	1467.9	1137.2	948.8	845.0	804.0	779.8	782.2
55°	3974.0	3597.4	2708.9	1933.9	1371.3	1026.1	835.4	748.4	707.4	700.2	700.2
57.5°	4181.6	3759.1	2747.5	1883.2	1274.8	917.4	741.2	666.4	647.0	656.7	656.7
60°	4394.1	3889.5	2766.8	1827.7	1175.8	825.7	676.0	615.7	606.0	625.3	627.7
62.5°	4565.5	3993.3	2762.0	1750.4	1067.1	746.0	613.2	565.0	569.8	603.6	610.8
65°	4688.6	4044.0	2701.6	1634.5	963.3	676.0	557.7	511.8	511.8	536.0	543.2
67.5°	*4679.0*	*3978.8*	*2580.9*	*1472.7*	*852.3*	*606.0*	*507.0*	*470.8*	*470.8*	*487.7*	*485.3*
70°	4481.0	3754.3	2351.6	1277.2	743.6	545.6	463.6	437.0	434.6	441.8	439.4
72.5°	4005.4	3298.0	1994.2	1055.1	642.2	485.3	420.1	396.0	391.1	381.5	374.2
75°	3305.2	2708.9	1557.2	840.2	543.2	427.3	379.1	357.3	338.0	350.1	342.8
77.5°	2564.0	2078.7	1158.9	651.9	441.8	371.8	338.0	313.9	309.0	352.5	338.0
80°	1871.1	1436.5	818.5	466.0	342.8	301.8	282.5	263.2	333.2	446.7	444.2
82.5°	830.5	692.9	374.2	222.1	159.3	132.8	111.1	125.5	210.0	205.2	212.5
85°	74.8	77.3	41.0	26.6	16.9	14.5	9.7	9.7	7.2	7.2	7.2
87.5°	9.7	9.7	7.2	7.2	4.8	4.8	4.8	4.8	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-4

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-30-730-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-30-730-U-5WQ-2

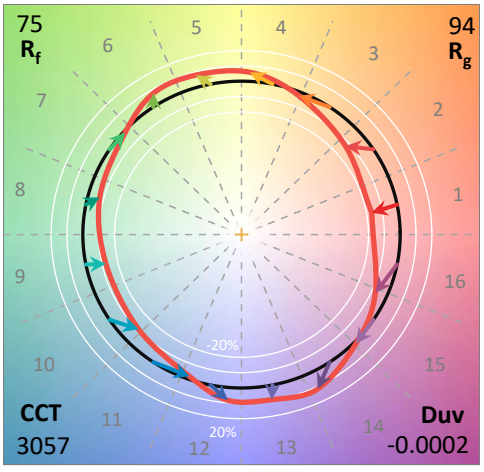
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-4
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-30-730-U-5WQ-2**
Description:	Epic Modern Light Square 30W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	3057	CRI (Ra):	71.7		
CIE u':	0.2487	R1:	68.1	R9:	-34.8
CIE v':	0.5199	R2:	82.0	R10:	58.5
Duv:	-0.0002	R3:	93.5	R11:	62.5
CIE x:	0.4326	R4:	67.5	R12:	47.5
CIE y:	0.4020	R5:	67.2	R13:	70.7
CIE z:	0.1654	R6:	74.9	R14:	96.4
Peak Wavelength (nm):	593	R7:	77.4	R15:	60.0
Dominant Wavelength (nm):	582	R8:	43.1		
Purity:	50.50735				
Rf:	74.6				
Rg:	94				



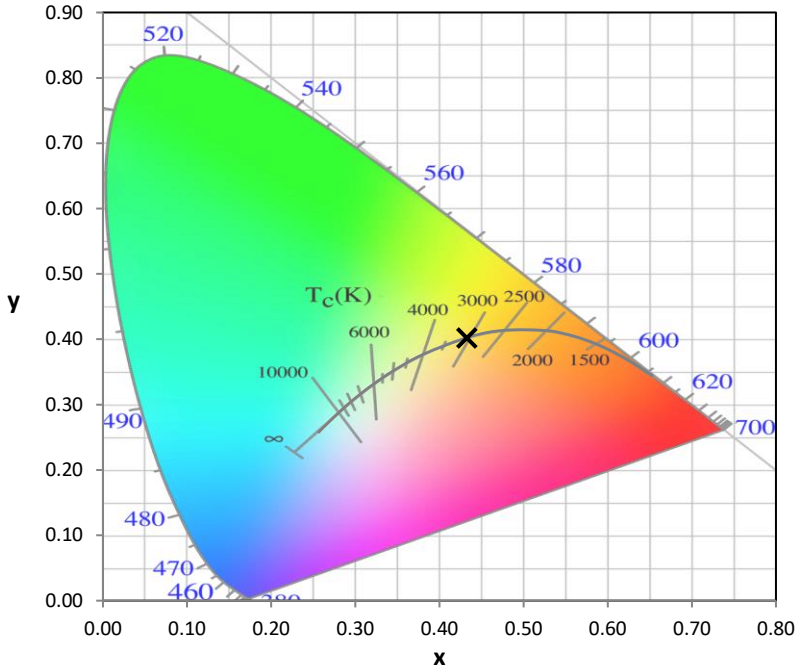
Test Conditions

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

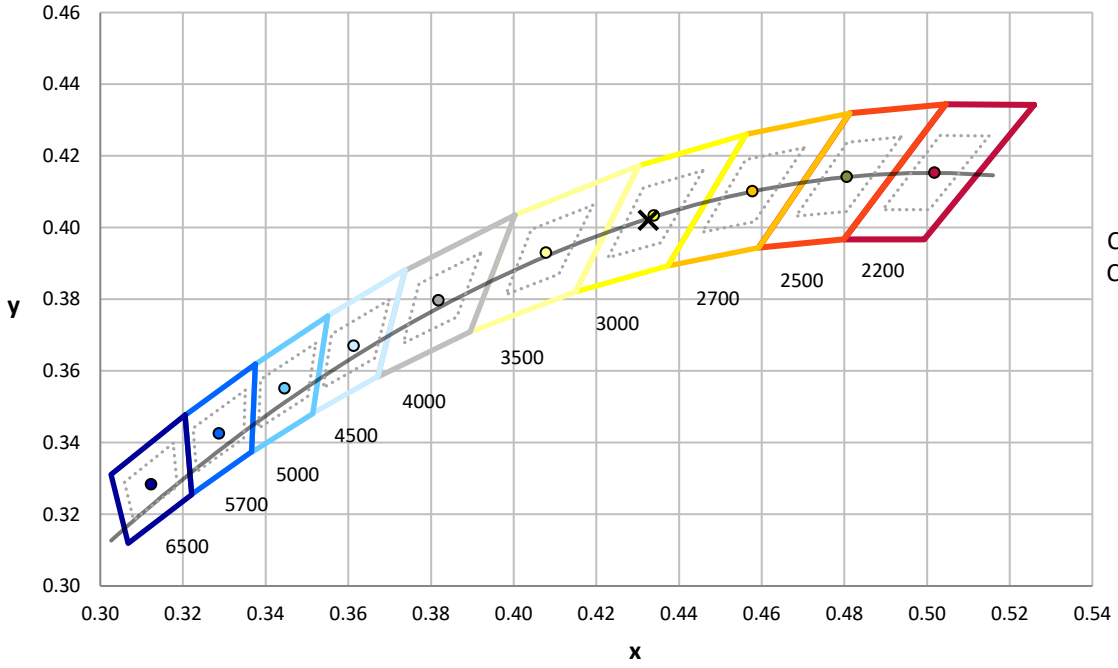
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-4

CIE 1931 Chromaticity Diagram



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

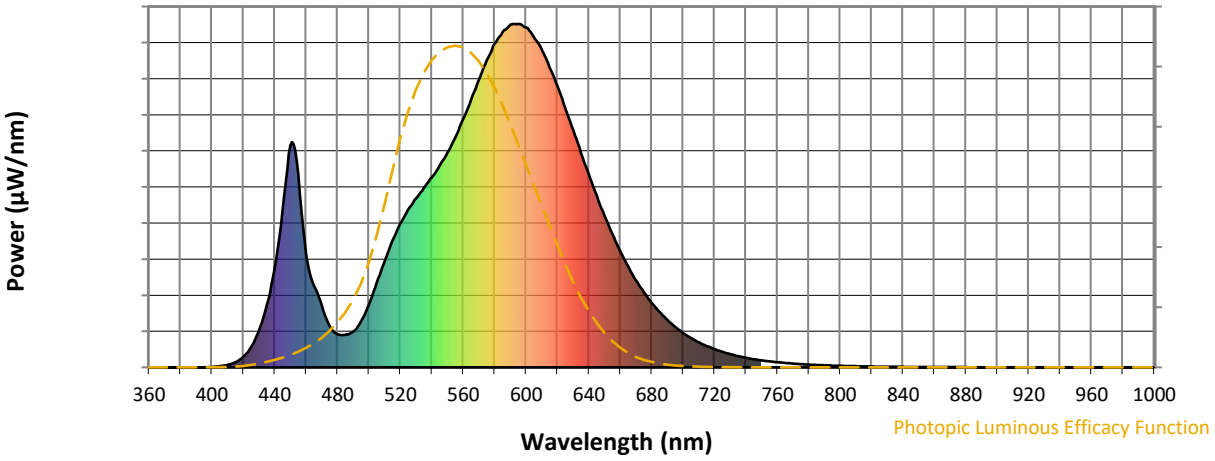


CCT = 3057K
CIE x = 0.4326
CIE y = 0.4020
Duv = -0.0002

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-4

Photopic Flux vs. Wavelength

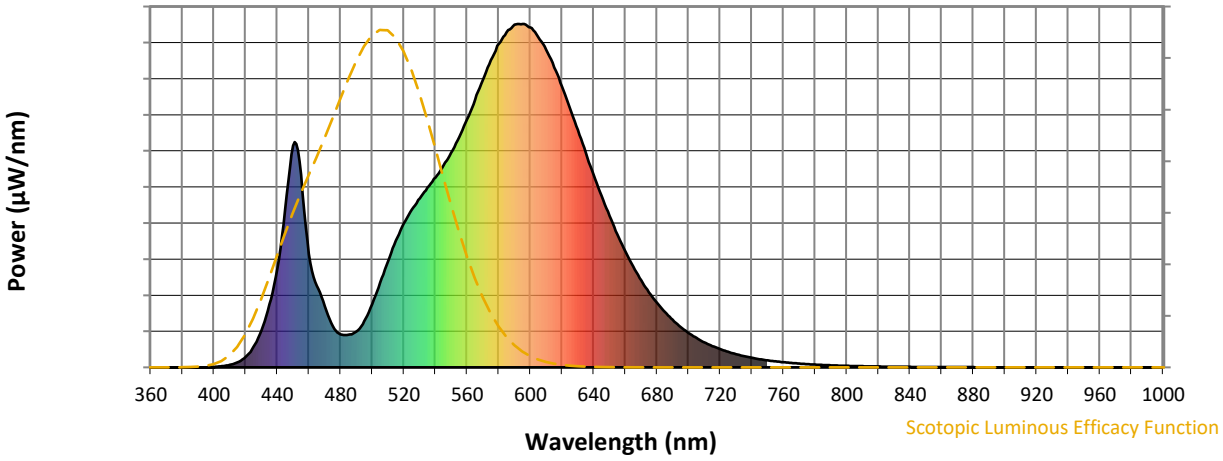


Photopic Lumens: NR

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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

REPORT NUMBER: SP1-2407-157-4

Scotopic Flux vs. Wavelength

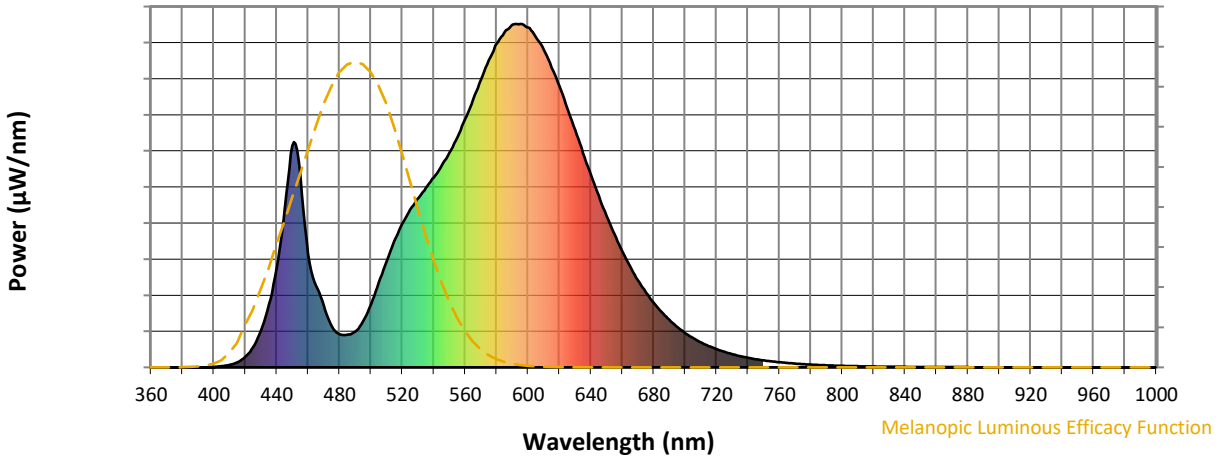


Scotopic Lumens: NR **S/P: 1.23**

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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

REPORT NUMBER: SP1-2407-157-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.27**

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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

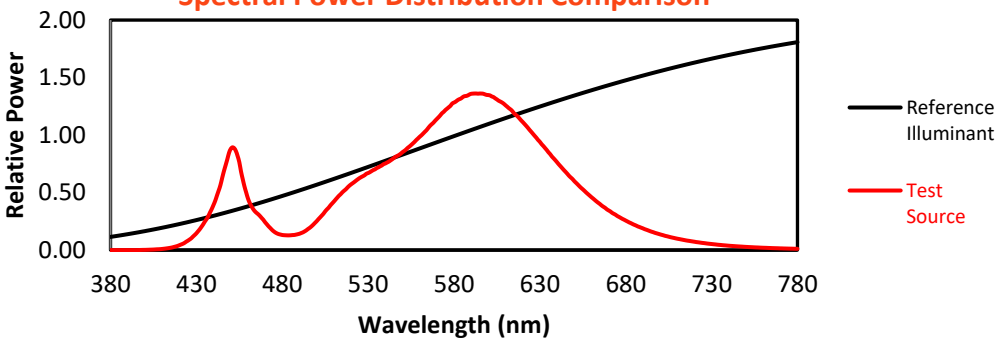
REPORT NUMBER: SP1-2407-157-4

TM-30-18

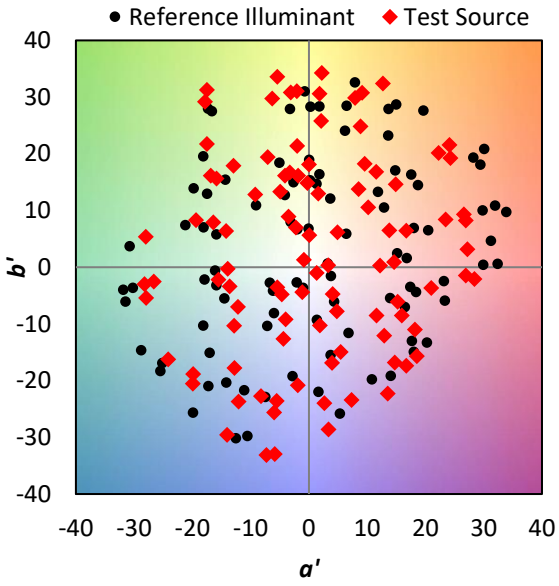
Summary

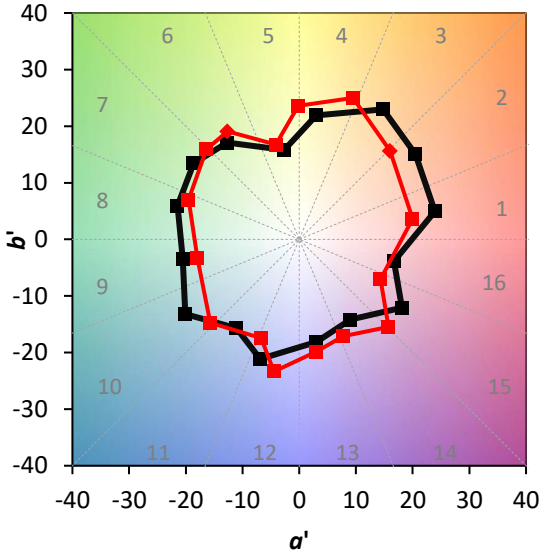
R_f = 74.6
R_g = 94
CIE R_a = 71.7
R_9 = -34.8

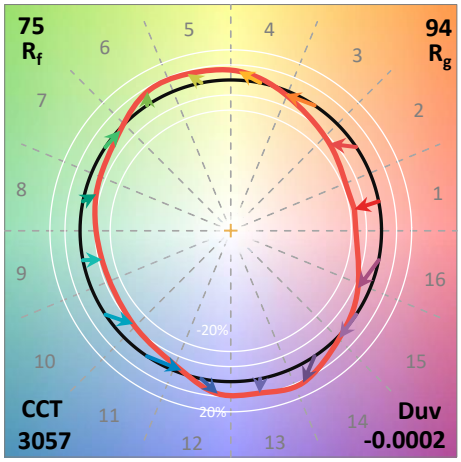
Spectral Power Distribution Comparison

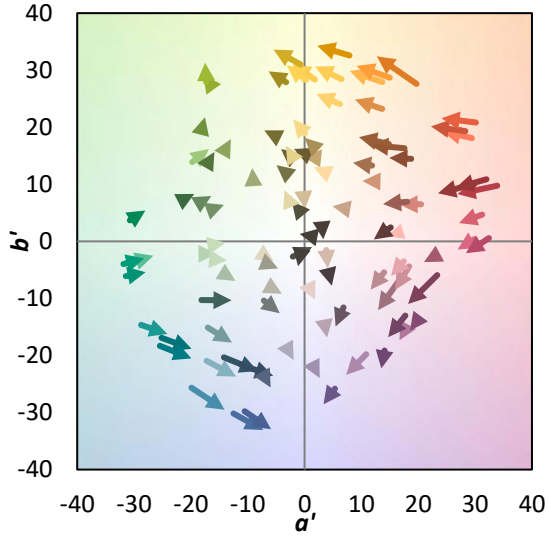


Color Vector Graphics







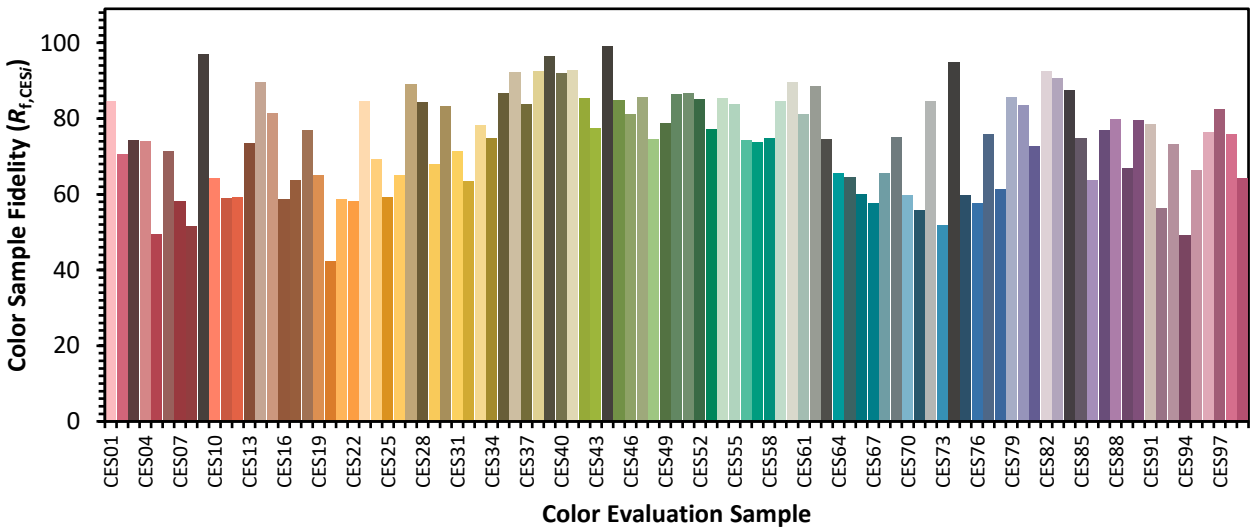


REPORT NUMBER: SP1-2407-157-4

TM-30-18

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

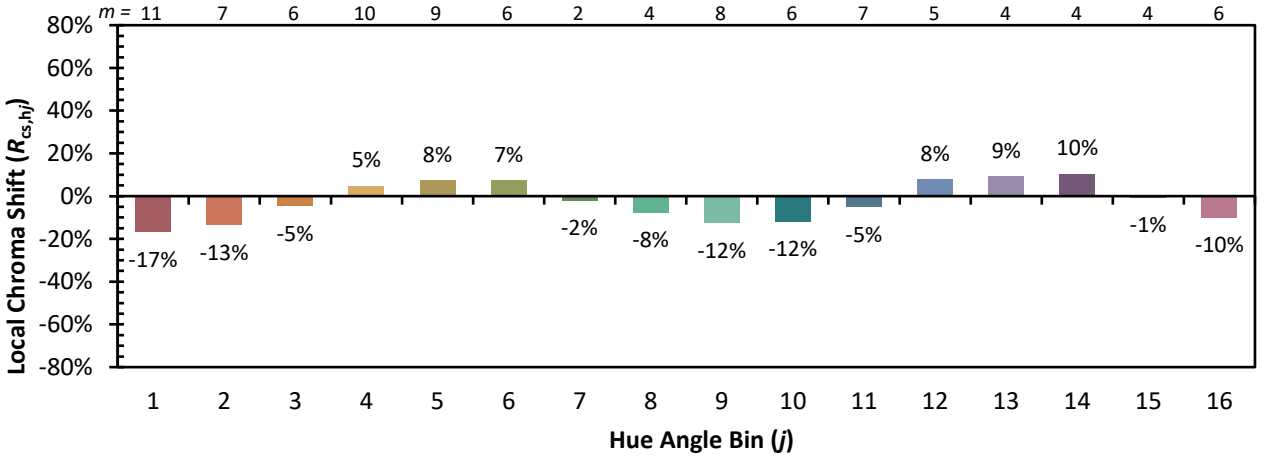
CES01 = 86	CES26 = 65	CES51 = 87	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 61
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 86
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 83
CES06 = 51	CES31 = 71	CES56 = 74	CES81 = 73
CES07 = 41	CES32 = 64	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 78	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 75	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 64
CES12 = 65	CES37 = 84	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 65	CES89 = 67
CES15 = 71	CES40 = 92	CES65 = 64	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 78
CES17 = 50	CES42 = 86	CES67 = 58	CES92 = 56
CES18 = 56	CES43 = 77	CES68 = 66	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 75	CES94 = 49
CES20 = 66	CES45 = 85	CES70 = 60	CES95 = 66
CES21 = 87	CES46 = 81	CES71 = 56	CES96 = 76
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 60	

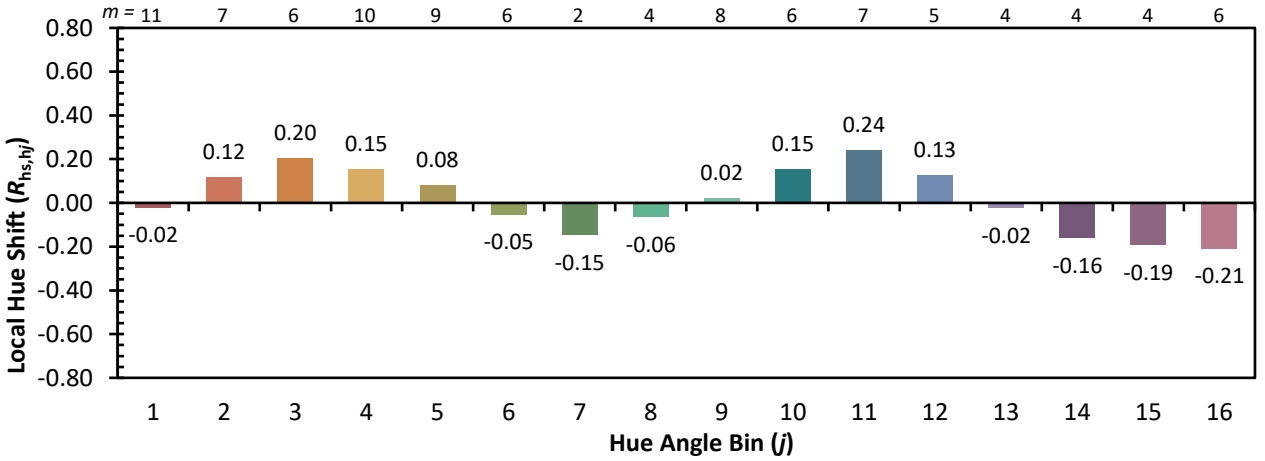


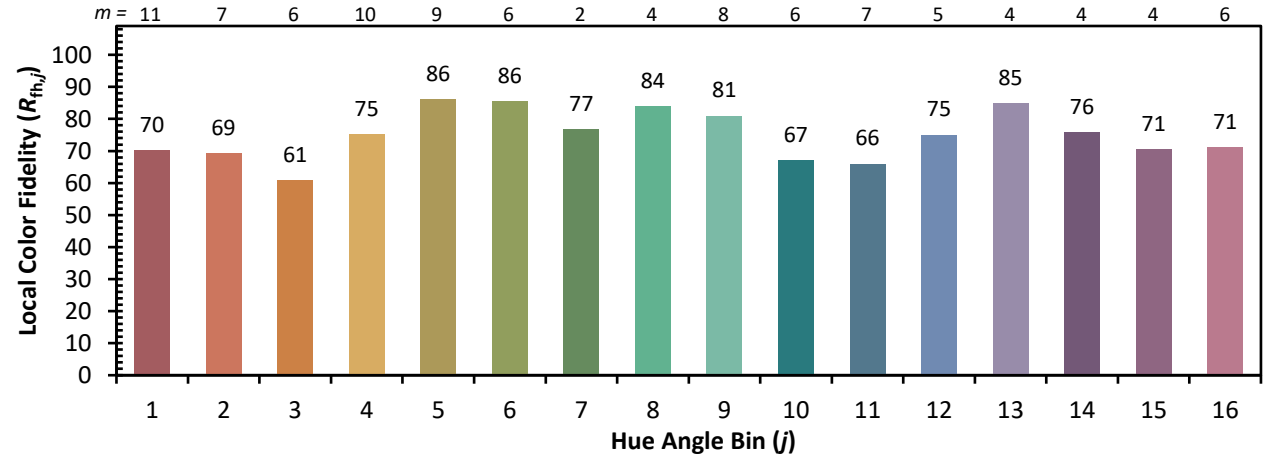
REPORT NUMBER: SP1-2407-157-4

TM-30-18

Color Rendition by Hue-Angle Bin



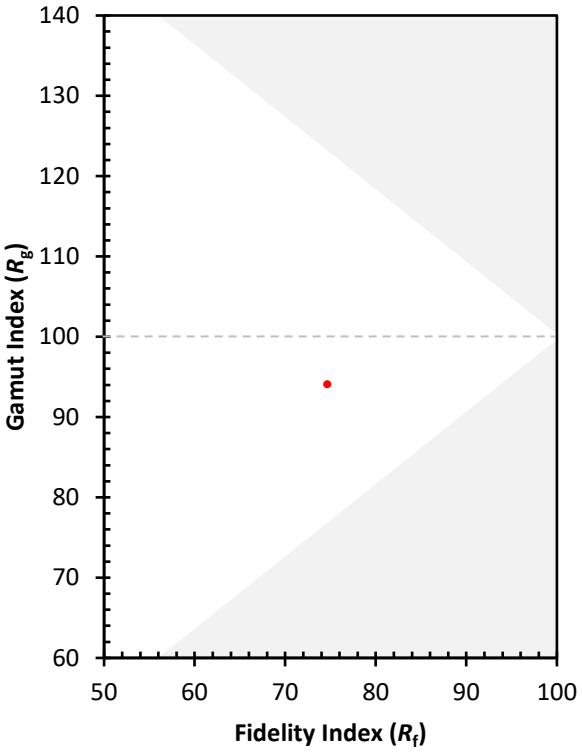


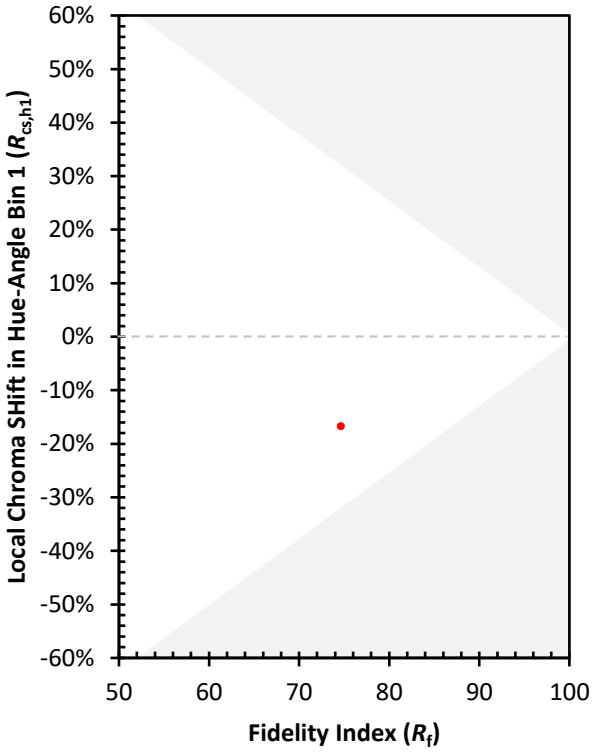


REPORT NUMBER: SP1-2407-157-4

TM-30-18

Measure Comparisons





(END OF REPORT)