

Signify Classified - Internal
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: P870312

Luminaire Tested: **MEM2-HSN-SA-130-830-U-T2U**

Issue Date: 09/05/2024



Test Information

Test Method: LM-79-08
Report Number: P870312
Test Lab: INNOVATION CENTER(G3)
Issue Date: 09/05/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM2-HSN-SA-130-830-U-T2U
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 130W 80CRI 3000K
FITXURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source: (30) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

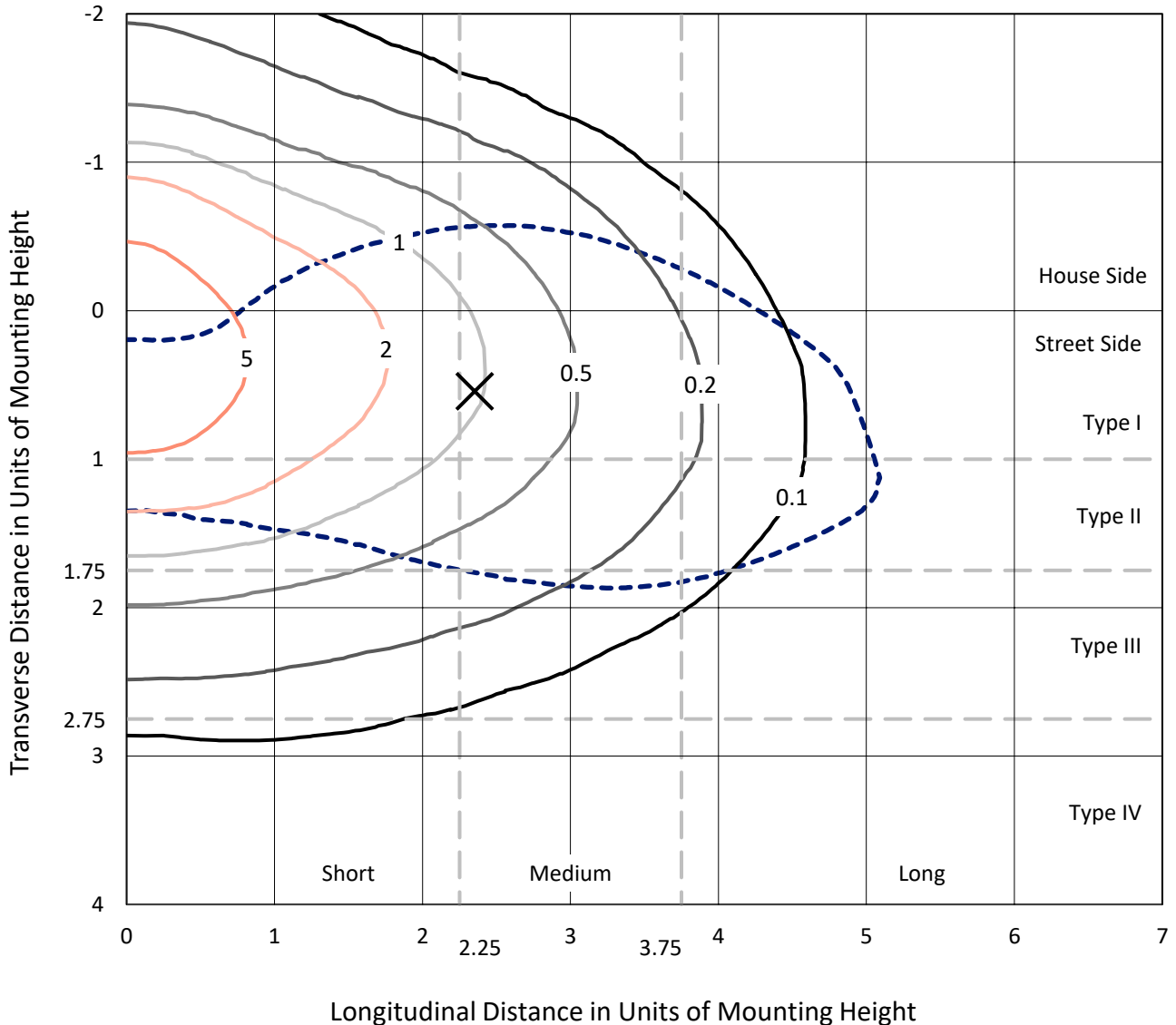
Lumens per Lamp: N/A
Luminaire Lumens: 16792.8 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 134
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.70%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P870312
 CATALOG NUMBER: MEM2-HSN-SA-130-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

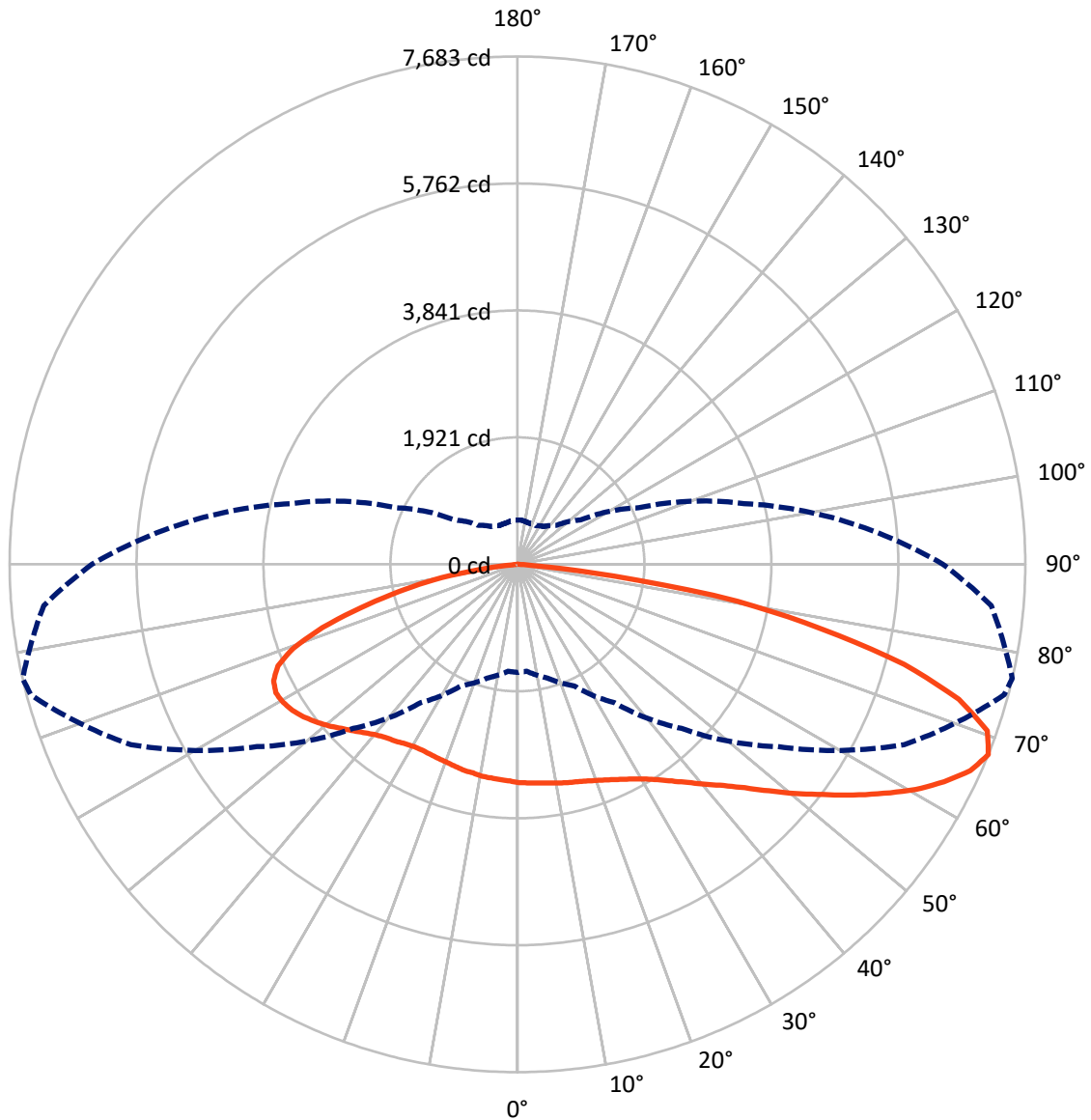
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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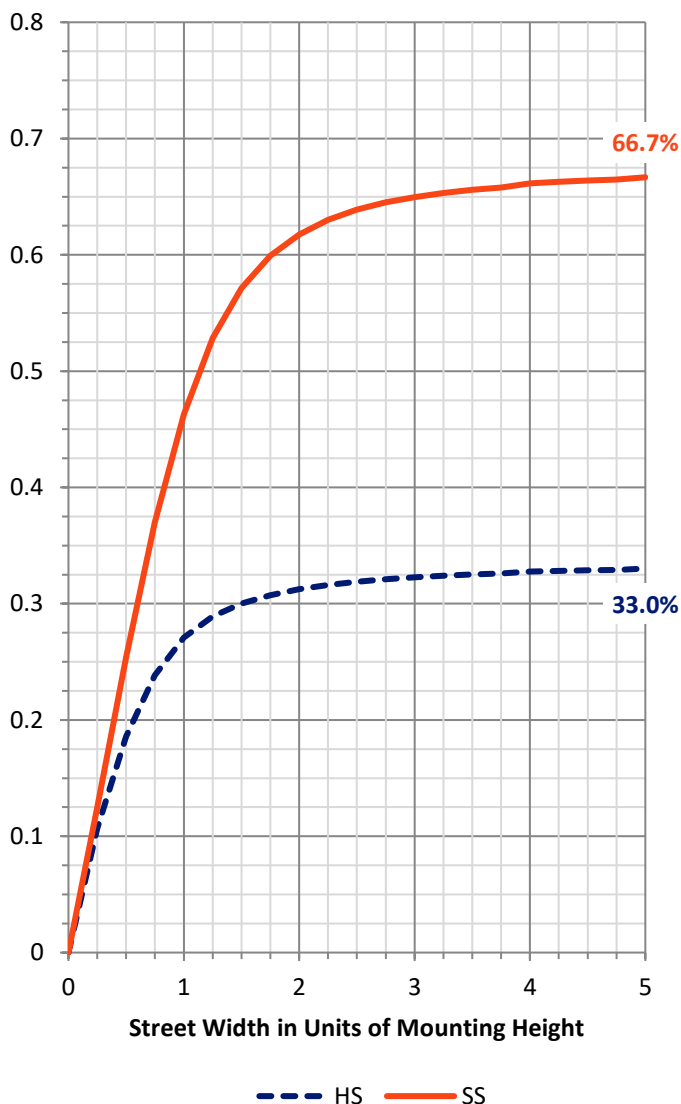
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5584.2	0.0	5584.2
	% Fixture	33.3	0.0	33.3
Street Side	Lumens	11208.6	0.0	11208.6
	% Fixture	66.7	0.0	66.7
Total	Lumens	16792.8	0.0	16792.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	1.9
10°-20°	962.4	5.7
20°-30°	1622.6	9.7
30°-40°	2302.5	13.7
40°-50°	2913.1	17.3
50°-60°	3191.2	19.0
60°-70°	3084.8	18.4
70°-80°	2074.7	12.4
80°-90°	324.2	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°	16792.8	100.0
0°-180°	16792.8	100.0

Coefficient of Utilization



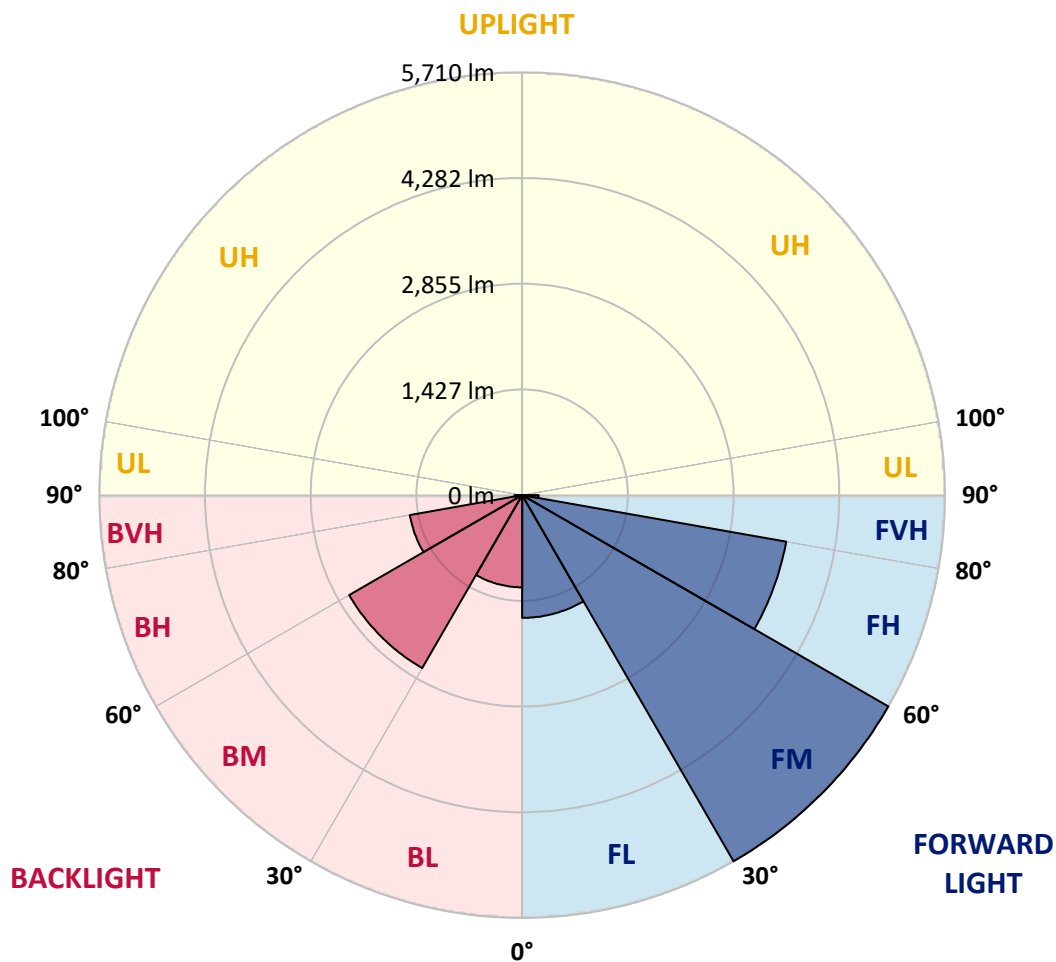
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.5	9.9			
FM (30°-60°)	5709.8	34.0			
FH (60°-80°)	3619.4	21.6			G2/5000
FVH (80°-90°)	222.0	1.3			G2/225
BL (0°-30°)	1244.8	7.4	B3/2500		
BM (30°-60°)	2697.0	16.1	B3/5000		
BH (60°-80°)	1540.1	9.2	B3/2500		G3/2500
BVH (80°-90°)	102.2	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





REPORT NUMBER: P870312

CATALOG NUMBER: MEM2-HSN-SA-130-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3374.7	3371.4	3354.8	3361.4	3341.5	3354.8	3334.9	3318.3	3314.9	3311.6	3314.9
5°	3481.0	3464.4	3447.8	3437.8	3421.2	3414.6	3381.4	3348.1	3328.2	3324.9	3318.3
7.5°	3603.9	3597.3	3574.0	3560.7	3514.2	3491.0	3444.5	3384.7	3354.8	3341.5	3324.9
10°	3730.1	3746.7	3716.8	3690.3	3637.1	3587.3	3507.6	3431.2	3371.4	3364.8	3328.2
12.5°	3886.2	3882.9	3863.0	3816.5	3753.4	3683.6	3587.3	3481.0	3401.3	3388.0	3334.9
15°	4025.7	4022.4	3995.9	3952.7	3869.6	3783.3	3653.7	3530.8	3431.2	3411.3	3348.1
17.5°	4155.3	4148.6	4132.0	4085.5	3982.6	3876.3	3750.1	3587.3	3467.7	3444.5	3358.1
20°	4268.2	4274.9	4254.9	4208.4	4112.1	3999.2	3839.7	3660.4	3514.2	3487.7	3388.0
22.5°	4391.1	4394.4	4384.5	4367.9	4245.0	4125.4	3952.7	3743.4	3567.4	3540.8	3421.2
25°	4520.7	4524.0	4530.6	4520.7	4381.2	4251.6	4068.9	3846.4	3640.4	3603.9	3467.7
27.5°	4670.1	4673.5	4686.7	4666.8	4517.3	4381.2	4198.5	3956.0	3716.8	3677.0	3507.6
30°	4839.5	4852.8	4842.9	4836.2	4663.5	4530.6	4328.0	4068.9	3816.5	3766.7	3577.3
32.5°	5042.1	5038.8	5018.9	4999.0	4822.9	4683.4	4474.2	4215.1	3939.4	3882.9	3690.3
35°	5188.3	5188.3	5158.4	5148.4	4985.7	4839.5	4633.6	4377.8	4078.9	4025.7	3809.8
37.5°	5278.0	5291.3	5268.0	5274.7	5118.5	4982.4	4793.0	4543.9	4231.7	4185.2	3956.0
40°	5311.2	5344.4	5364.3	5390.9	5234.8	5118.5	4962.4	4723.3	4427.7	4374.5	4132.0
42.5°	5317.8	5367.7	5437.4	5493.9	5317.8	5221.5	5125.2	4906.0	4620.3	4573.8	4324.7
45°	5284.6	5261.4	5430.8	5437.4	5364.3	5304.6	5268.0	5125.2	4899.3	4822.9	4563.8
47.5°	5032.2	5005.6	5052.1	5264.7	5307.9	5341.1	5414.2	5380.9	5178.3	5118.5	4839.5
50°	4623.6	4610.3	4796.4	5025.5	5168.4	5337.8	5533.7	5626.7	5487.2	5450.7	5188.3
52.5°	3949.4	3912.8	4291.5	4736.6	4985.7	5304.6	5616.8	5879.2	5836.0	5782.9	5487.2
55°	3520.9	3520.9	3776.6	4331.3	4753.2	5185.0	5669.9	6144.9	6221.3	6161.5	5829.4
57.5°	3062.5	3099.0	3364.8	3746.7	4417.7	4965.8	5663.3	6367.5	6593.3	6536.9	6191.4
60°	2670.5	2700.4	2853.2	3238.5	4022.4	4676.8	5590.2	6550.1	6938.8	6918.8	6510.3
62.5°	2272.0	2308.5	2431.4	2793.4	3500.9	4344.6	5437.4	6649.8	7264.3	7244.4	6832.5
65°	1953.1	1956.4	2079.3	2381.6	2979.5	3942.7	5168.4	6629.9	7516.7	7530.0	7104.8
67.5°	1634.2	1624.2	1783.7	2029.5	2554.3	3510.9	4809.6	6453.8	7623.0	7682.8	7194.5
70°	1202.4	1215.7	1438.2	1710.6	2159.0	3012.7	4308.1	6111.7	7450.3	7543.3	6988.6
72.5°	903.5	930.0	1145.9	1428.3	1803.6	2514.4	3760.0	5517.1	6968.7	6981.9	6360.8
75°	734.1	740.7	933.4	1185.8	1478.1	2016.2	3019.3	4607.0	5892.5	6045.3	5404.2
77.5°	624.5	617.8	710.8	956.6	1192.4	1611.0	2275.3	3504.3	4627.0	4696.7	4231.7
80°	531.5	528.1	561.3	773.9	933.4	1149.3	1557.8	2441.4	3301.6	3378.0	3006.0
82.5°	279.0	298.9	292.3	478.3	528.1	604.5	747.4	1109.4	1441.6	1461.5	1381.8
85°	13.3	13.3	13.3	19.9	33.2	53.1	103.0	103.0	112.9	215.9	245.8
87.5°	3.3	3.3	6.6	6.6	6.6	10.0	10.0	13.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P870312
 CATALOG NUMBER: MEM2-HSN-SA-130-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3308.3	3295.0	3275.1	3278.4	3275.1	3275.1	3258.5	3245.2	3241.9	3248.5	3261.8
5°	3311.6	3291.7	3261.8	3251.8	3241.9	3235.2	3208.6	3188.7	3178.7	3185.4	3188.7
7.5°	3311.6	3281.7	3248.5	3228.6	3202.0	3182.1	3152.2	3125.6	3112.3	3115.6	3122.3
10°	3305.0	3271.7	3245.2	3205.3	3162.1	3138.9	3092.4	3059.2	3042.6	3045.9	3029.3
12.5°	3305.0	3268.4	3215.3	3178.7	3119.0	3069.1	3032.6	2996.1	2982.8	2969.5	2962.8
15°	3308.3	3261.8	3208.6	3132.2	3062.5	3009.3	2962.8	2939.6	2919.7	2913.0	2916.3
17.5°	3308.3	3261.8	3182.1	3092.4	3012.7	2946.2	2906.4	2879.8	2873.2	2866.5	2866.5
20°	3324.9	3265.1	3158.8	3052.5	2952.9	2883.1	2846.6	2830.0	2830.0	2820.0	2820.0
22.5°	3351.5	3271.7	3145.5	3019.3	2903.1	2826.7	2786.8	2766.9	2776.8	2770.2	2766.9
25°	3381.4	3295.0	3128.9	2972.8	2836.6	2756.9	2717.0	2703.8	2700.4	2683.8	2707.1
27.5°	3404.6	3311.6	3119.0	2926.3	2776.8	2683.8	2634.0	2610.8	2594.1	2600.8	2594.1
30°	3467.7	3358.1	3122.3	2886.4	2710.4	2597.5	2537.7	2511.1	2504.5	2504.5	2504.5
32.5°	3554.1	3417.9	3145.5	2869.8	2647.3	2514.4	2441.4	2414.8	2408.1	2394.9	2401.5
35°	3663.7	3507.6	3182.1	2843.3	2597.5	2418.1	2338.4	2301.9	2291.9	2278.6	2278.6
37.5°	3786.6	3597.3	3208.6	2830.0	2531.0	2318.5	2228.8	2182.3	2175.6	2162.3	2169.0
40°	3942.7	3720.2	3251.8	2803.4	2454.6	2228.8	2109.2	2032.8	2049.4	2056.1	2069.3
42.5°	4118.8	3876.3	3318.3	2776.8	2394.9	2135.8	1959.7	1883.3	1903.3	1896.6	1909.9
45°	4357.9	4059.0	3401.3	2766.9	2321.8	2022.8	1806.9	1720.6	1713.9	1704.0	1710.6
47.5°	4607.0	4278.2	3481.0	2746.9	2242.1	1883.3	1634.2	1524.6	1498.0	1484.7	1471.5
50°	4866.1	4497.4	3574.0	2733.7	2135.8	1727.2	1461.5	1335.3	1285.4	1268.8	1252.2
52.5°	5158.4	4733.2	3653.7	2700.4	2019.5	1564.5	1305.4	1162.6	1106.1	1072.9	1076.2
55°	5467.3	4949.1	3726.8	2660.6	1886.7	1411.7	1149.3	1029.7	973.2	963.3	963.3
57.5°	5753.0	5171.7	3780.0	2590.8	1753.8	1262.2	1019.7	916.8	890.2	903.5	903.5
60°	6045.3	5351.1	3806.5	2514.4	1617.6	1136.0	930.0	847.0	833.7	860.3	863.6
62.5°	6281.1	5493.9	3799.9	2408.1	1468.1	1026.4	843.7	777.2	783.9	830.4	840.4
65°	6450.5	5563.6	3716.8	2248.7	1325.3	930.0	767.3	704.2	704.2	737.4	747.4
67.5°	6437.2	5474.0	3550.8	2026.2	1172.5	833.7	697.5	647.7	647.7	671.0	667.6
70°	6164.8	5165.0	3235.2	1757.1	1023.0	750.7	637.7	601.2	597.9	607.8	604.5
72.5°	5510.5	4537.3	2743.6	1451.5	883.5	667.6	578.0	544.7	538.1	524.8	514.8
75°	4547.2	3726.8	2142.4	1155.9	747.4	587.9	521.5	491.6	465.0	481.6	471.7
77.5°	3527.5	2859.9	1594.4	896.8	607.8	511.5	465.0	431.8	425.2	484.9	465.0
80°	2574.2	1976.3	1126.0	641.1	471.7	415.2	388.6	362.1	458.4	614.5	611.2
82.5°	1142.6	953.3	514.8	305.6	219.2	182.7	152.8	172.7	289.0	282.3	292.3
85°	103.0	106.3	56.5	36.5	23.3	19.9	13.3	13.3	10.0	10.0	10.0
87.5°	13.3	13.3	10.0	10.0	6.6	6.6	6.6	6.6	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-7

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-30-830-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-30-830-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-157-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/05/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **MEM2-HTN-SA-30-830-U-5WQ**
 Description: Epic Modern Light Square 30W 5WQ Optic

Spectral Parameters

CCT (K): 3126
 CIE u': 0.2465
 CIE v': 0.5182
 Duv: -0.0004
 CIE x: 0.4277
 CIE y: 0.3997
 CIE z: 0.1727
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 582
 Purity: 48.31913
 Rf: 84.4
 Rg: 94.7

CRI (Ra):	82.6		
R1:	81.4	R9:	5.1
R2:	92.2	R10:	82.2
R3:	94.9	R11:	79.8
R4:	80.1	R12:	70.4
R5:	81.8	R13:	84.2
R6:	90.5	R14:	97.9
R7:	81.8	R15:	73.6
R8:	58.0		



Test Conditions

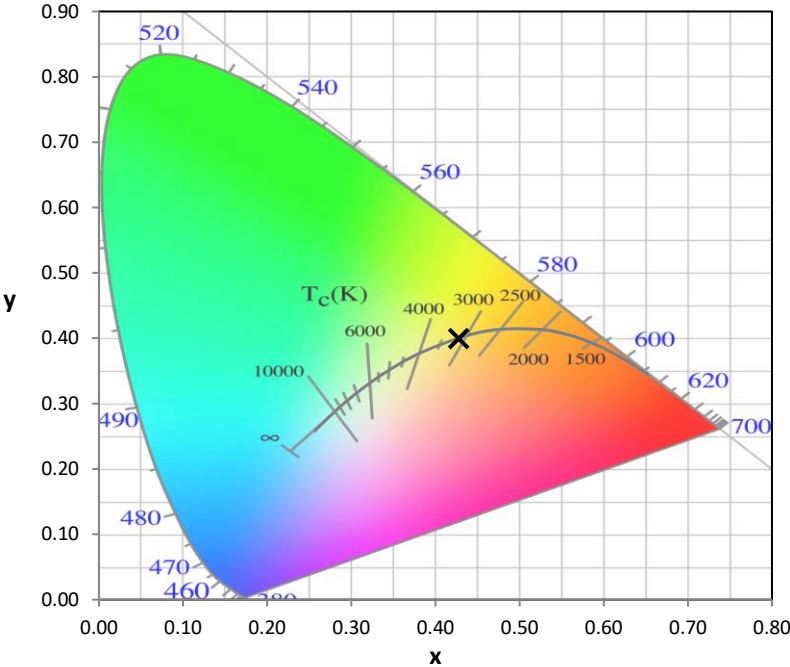
Stabilization Time: 22M
 Operation Time: 1H 22M
 Sphere Temperature (°C): 24.3

REPORT NUMBER: SP1-2407-157-7

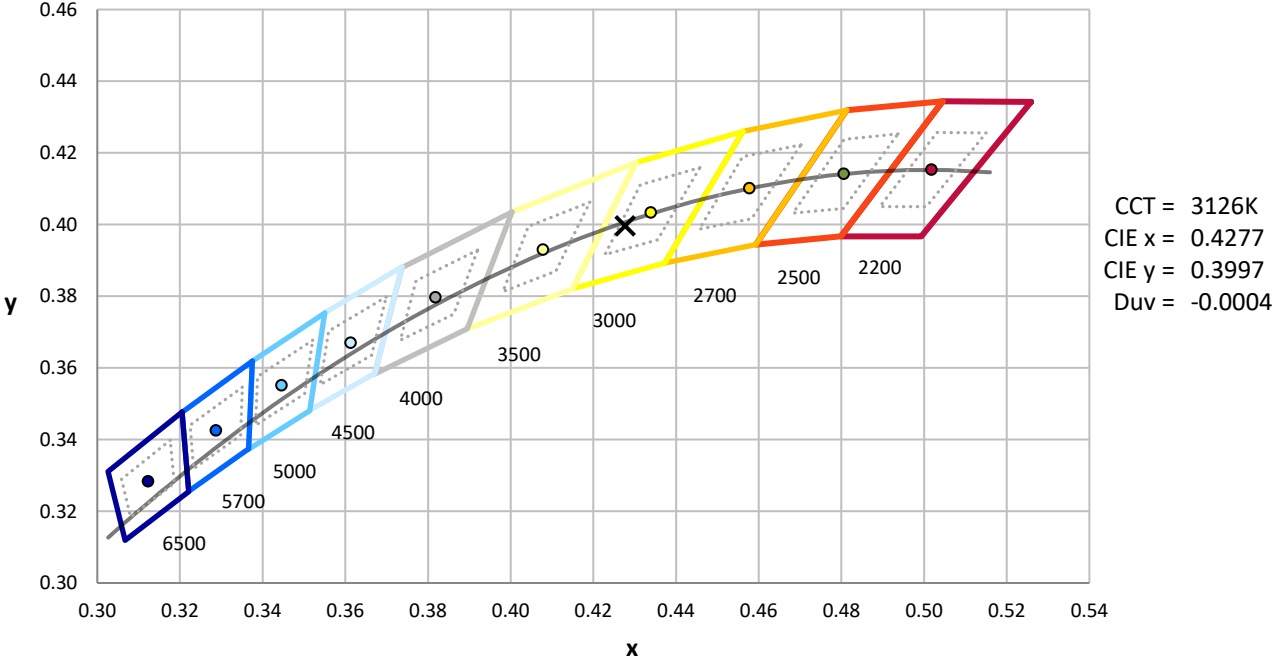
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



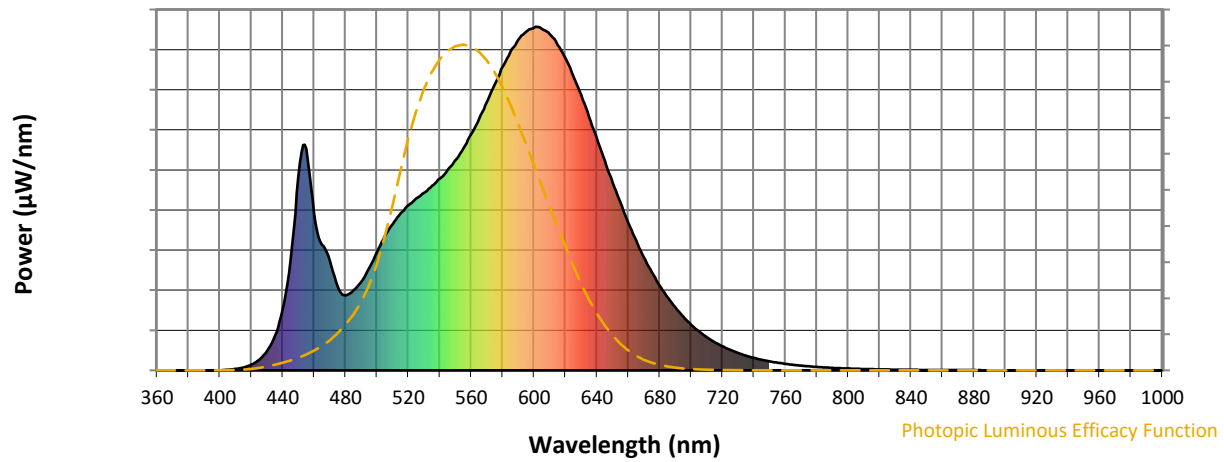
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

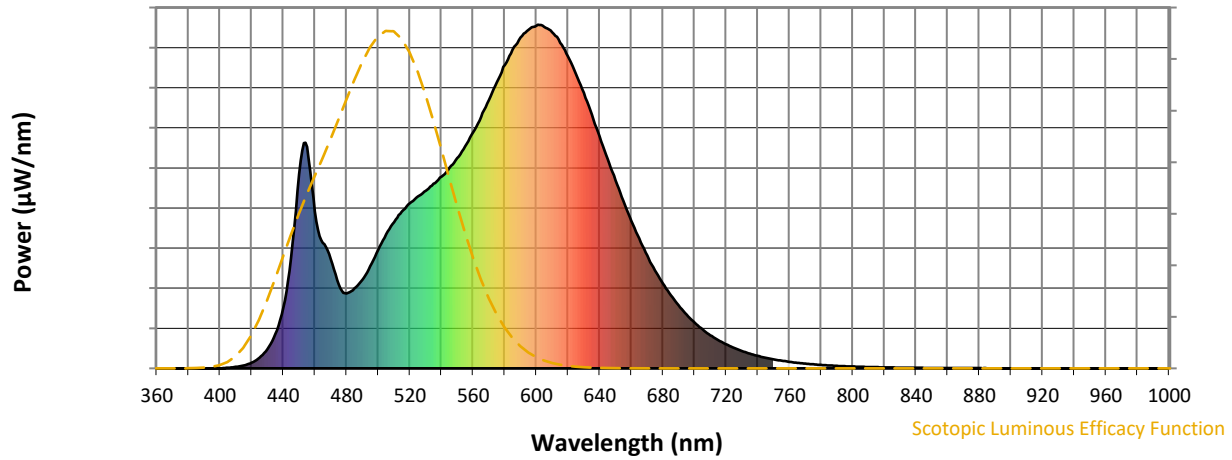


Photopic Lumens: NR

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.42

λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)
360	0	NR	490	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.79

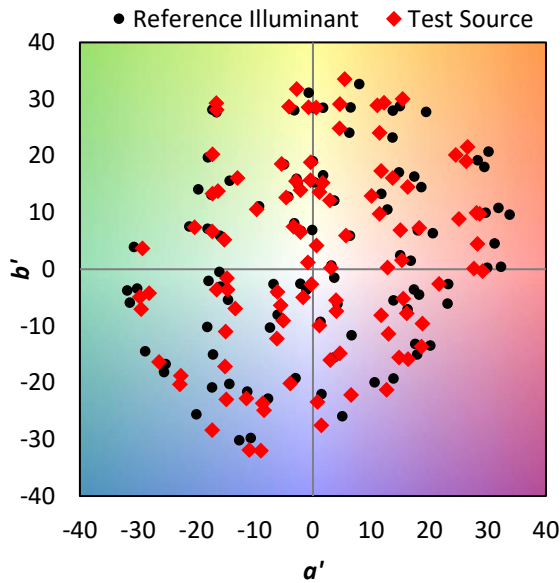
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

Summary

$R_f = 84.4$
 $R_g = 94.7$
 $CIE R_a = 82.6$
 $R_9 = 5.1$



Color Vector Graphics



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

CES01 = 86	CES26 = 86	CES51 = 93	CES76 = 82
CES02 = 63	CES27 = 92	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 81
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 90
CES05 = 49	CES30 = 91	CES55 = 86	CES80 = 89
CES06 = 51	CES31 = 93	CES56 = 85	CES81 = 72
CES07 = 42	CES32 = 85	CES57 = 83	CES82 = 95
CES08 = 41	CES33 = 97	CES58 = 84	CES83 = 94
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 76	CES35 = 96	CES60 = 90	CES85 = 74
CES11 = 59	CES36 = 81	CES61 = 87	CES86 = 68
CES12 = 65	CES37 = 96	CES62 = 83	CES87 = 84
CES13 = 43	CES38 = 86	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 75
CES15 = 71	CES40 = 96	CES65 = 78	CES90 = 89
CES16 = 47	CES41 = 96	CES66 = 77	CES91 = 73
CES17 = 50	CES42 = 97	CES67 = 76	CES92 = 63
CES18 = 56	CES43 = 91	CES68 = 80	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 85	CES94 = 61
CES20 = 66	CES45 = 93	CES70 = 78	CES95 = 73
CES21 = 87	CES46 = 90	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 94	CES72 = 91	CES97 = 88
CES23 = 92	CES48 = 83	CES73 = 74	CES98 = 85
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 76
CES25 = 72	CES50 = 93	CES75 = 78	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)