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: McGRAW-EDISON

Report Number: P821358

Luminaire Tested: **TT-D2-750-24VDC-MQ-UPL**

Issue Date: 7/23/2020

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:	P821358
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-3) AND
Test Lab:	INNOVATION CENTER
Issue Date:	7/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D2-750-24VDC-MQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT WITH UPLIGHT
	5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6479.4 lumens
Efficiency:	N/A
Efficacy:	170.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B2 - U4 - G2

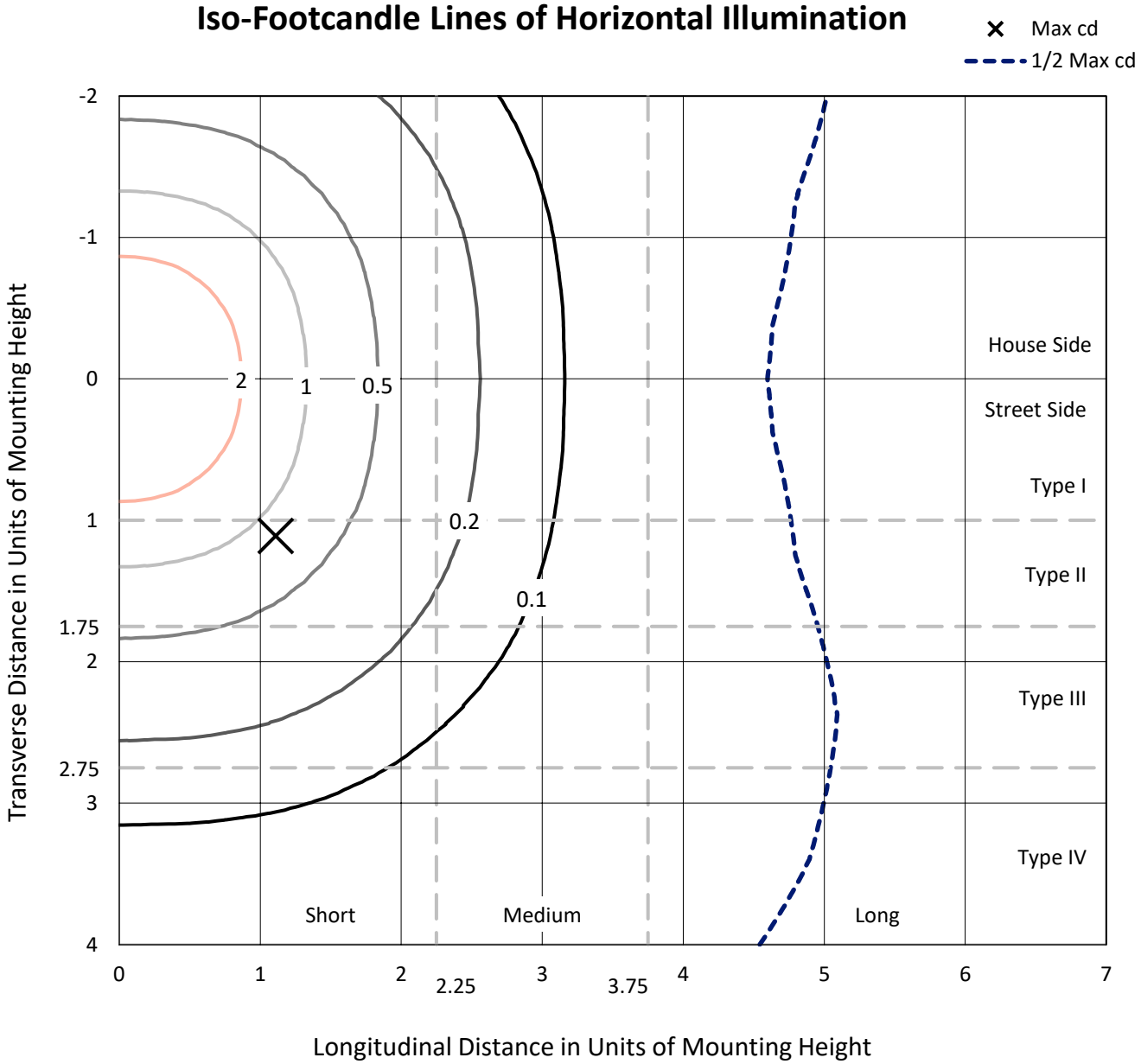
Input Watts (W):	38
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821358
CATALOG NUMBER: TT-D2-750-24VDC-MQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



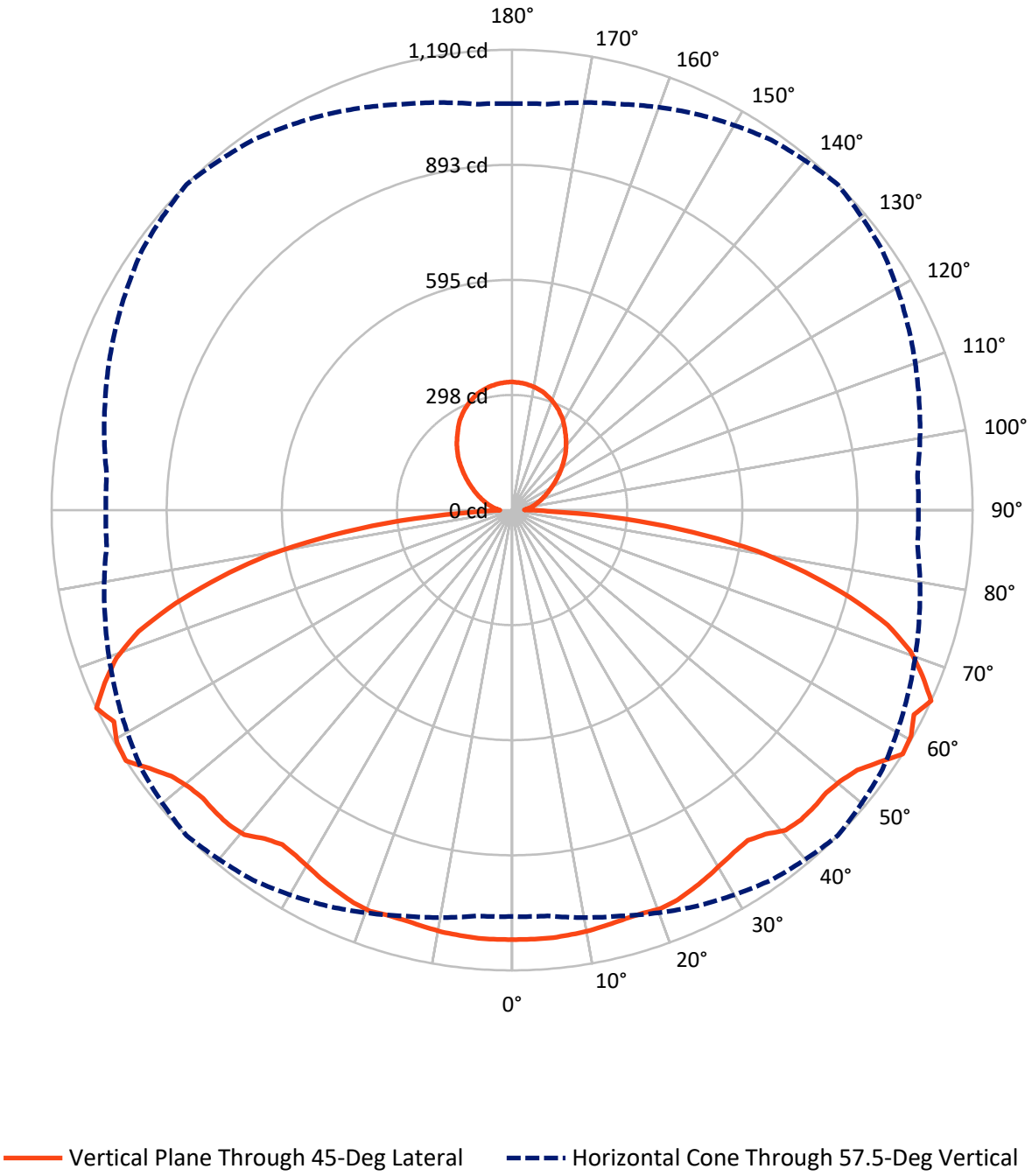
Based on 15 foot mounting height. Maximum calculated value = 4.9 fc
Type V - Short - N/A

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REPORT NUMBER: P821358
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Luminous Intensity Polar Plot



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Scaled Data Report

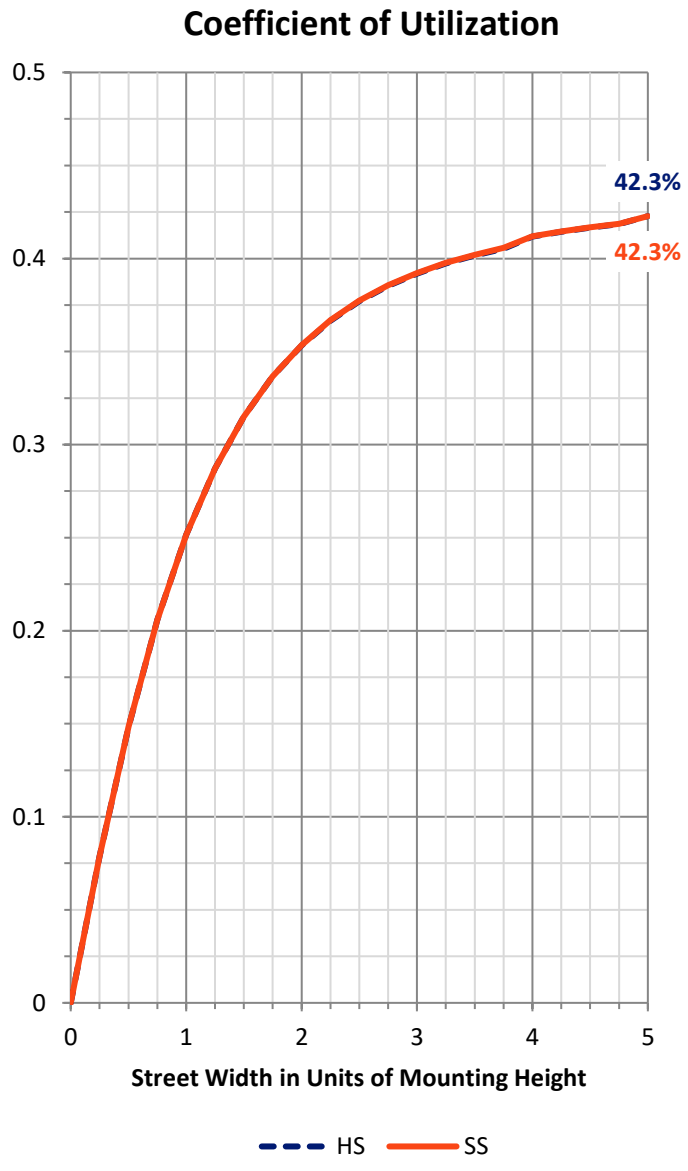
REPORT NUMBER: P821358
CATALOG NUMBER: TT-D2-750-24VDC-MQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2789.7	450.0	3239.7
	% Fixture	43.1	6.9	50.0
Street Side	Lumens	2789.7	450.0	3239.7
	% Fixture	43.1	6.9	50.0
Total	Lumens	5579.3	900.0	6479.4
	% Fixture	86.1	13.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.6
10°-20°	311.2	4.8
20°-30°	500.1	7.7
30°-40°	660.2	10.2
40°-50°	826.0	12.7
50°-60°	982.4	15.2
60°-70°	1065.5	16.4
70°-80°	848.1	13.1
80°-90°	280.0	4.3
90°-100°	46.1	0.7
100°-110°	71.4	1.1
110°-120°	99.4	1.5
120°-130°	128.8	2.0
130°-140°	150.0	2.3
140°-150°	152.1	2.3
150°-160°	131.9	2.0
160°-170°	89.0	1.4
170°-180°	31.3	0.5
0°-90°	5579.3	86.1
0°-180°	6479.4	100.0



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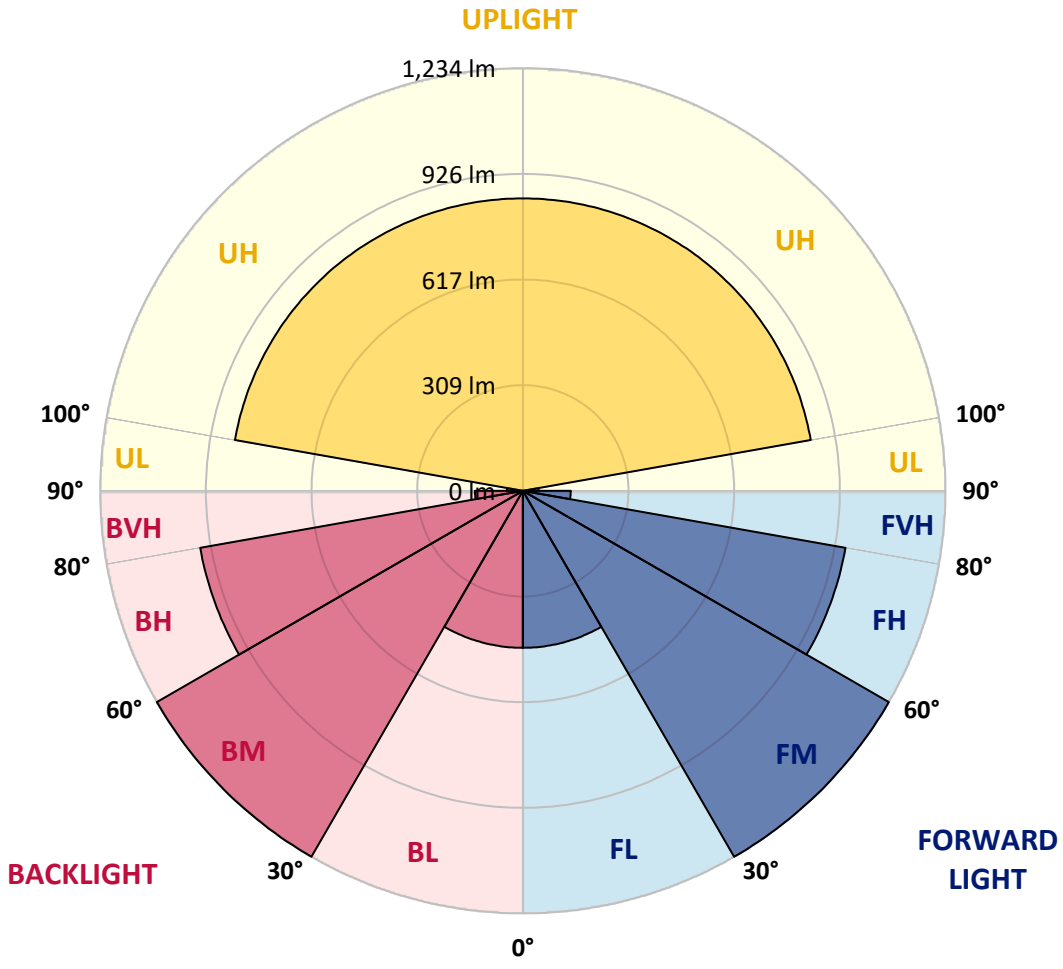
Scaled Data Report

REPORT NUMBER: P821358
CATALOG NUMBER: TT-D2-750-24VDC-MQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	458.5	7.1			
FM	(30°-60°)	1234.3	19.0			
FH	(60°-80°)	956.8	14.8			G1/1800
FVH	(80°-90°)	140.0	2.2			G2/225
BL	(0°-30°)	458.5	7.1	B1/500		
BM	(30°-60°)	1234.3	19.0	B2/2500		
BH	(60°-80°)	956.8	14.8	B2/1000		G1/1800
BVH	(80°-90°)	140.0	2.2			G2/225
UL	(90°-100°)	46.1	0.7		U2/50	
UH	(100°-180°)	853.9	13.2		U4/1000	

BUG Rating: B2-U4-G2
Type V Short



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REPORT NUMBER: P821358
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4
2.5°	1112.0	1111.2	1112.0	1111.2	1111.2	1110.4	1111.2	1111.2	1111.2	1111.2	1111.2
5°	1111.2	1110.4	1110.4	1111.2	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4
7.5°	1107.9	1107.9	1108.7	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1108.7	1108.7
10°	1105.4	1104.6	1105.4	1105.4	1104.6	1105.4	1104.6	1105.4	1105.4	1105.4	1105.4
12.5°	1102.1	1101.2	1102.1	1102.1	1101.2	1100.4	1101.2	1101.2	1102.1	1102.1	1102.1
15°	1096.3	1096.3	1097.9	1097.1	1097.1	1096.3	1097.9	1097.1	1096.3	1097.1	1097.1
17.5°	1092.1	1092.1	1093.8	1095.4	1095.4	1095.4	1095.4	1094.6	1093.0	1093.8	1092.1
20°	1093.0	1093.8	1094.6	1097.1	1098.8	1099.6	1099.6	1097.1	1094.6	1095.4	1094.6
22.5°	1090.5	1089.6	1090.5	1092.1	1094.6	1094.6	1094.6	1091.3	1090.5	1089.6	1089.6
25°	1080.5	1080.5	1082.2	1083.8	1085.5	1084.7	1085.5	1083.8	1082.2	1080.5	1080.5
27.5°	1068.9	1068.9	1071.4	1073.1	1074.7	1074.7	1073.9	1072.2	1071.4	1069.7	1068.9
30°	1057.3	1057.3	1059.8	1061.4	1063.9	1063.1	1063.1	1060.6	1058.1	1056.5	1056.5
32.5°	1044.9	1044.0	1046.5	1050.7	1054.0	1054.0	1054.0	1049.0	1045.7	1044.0	1043.2
35°	1034.1	1034.1	1037.4	1044.9	1049.0	1049.0	1047.3	1044.0	1036.6	1034.1	1034.1
37.5°	1030.8	1033.2	1042.4	1053.1	1061.4	1063.1	1060.6	1051.5	1041.5	1034.1	1031.6
40°	1041.5	1044.0	1055.6	1073.1	1085.5	1088.0	1085.5	1072.2	1054.8	1043.2	1042.4
42.5°	1043.2	1044.9	1059.0	1078.9	1090.5	1094.6	1090.5	1077.2	1058.1	1044.0	1043.2
45°	1037.4	1038.2	1054.8	1075.5	1089.6	1094.6	1089.6	1073.9	1054.0	1038.2	1037.4
47.5°	1029.9	1031.6	1049.8	1071.4	1088.8	1092.1	1088.0	1070.6	1048.2	1032.4	1029.9
50°	1024.1	1029.1	1045.7	1069.7	1090.5	1100.4	1090.5	1067.2	1044.9	1027.4	1024.1
52.5°	1027.4	1029.1	1050.7	1084.7	1112.9	1117.0	1112.0	1084.7	1049.0	1029.1	1026.6
55°	1037.4	1044.9	1068.1	1117.0	1142.7	1150.2	1139.4	1115.3	1068.9	1044.9	1037.4
57.5°	1050.7	1053.1	1086.3	1129.4	1167.6	1190.0	1168.4	1128.6	1088.8	1051.5	1049.8
60°	1039.9	1032.4	1073.9	1124.5	1175.9	1185.0	1172.6	1125.3	1072.2	1031.6	1039.1
62.5°	1010.9	1015.8	1049.8	1119.5	1155.1	1165.1	1151.8	1119.5	1048.2	1020.0	1008.4
65°	987.6	1017.5	1054.8	1104.6	1161.8	1190.0	1162.6	1102.9	1056.5	1012.5	985.2
67.5°	955.3	961.1	1016.7	1078.0	1129.4	1143.5	1128.6	1078.9	1011.7	957.0	961.1
70°	900.6	892.3	948.7	1020.0	1068.9	1091.3	1070.6	1016.7	946.2	890.6	898.1
72.5°	810.2	815.2	867.4	942.9	993.4	1015.0	994.3	937.1	865.7	820.1	815.2
75°	715.6	721.4	772.0	840.9	892.3	901.4	895.6	836.7	773.7	720.6	715.6
77.5°	607.8	613.6	655.1	730.6	761.3	775.4	762.9	734.7	653.5	612.8	606.2
80°	488.4	486.8	523.3	587.9	626.1	641.8	626.1	589.6	521.6	490.1	479.3
82.5°	349.1	350.8	384.8	429.6	466.0	471.0	463.6	433.7	381.5	354.9	340.0
85°	194.0	201.5	226.4	259.6	283.6	291.9	279.5	251.3	225.6	204.8	198.2
87.5°	46.4	50.6	58.9	74.6	83.8	92.0	83.8	77.9	55.6	50.6	46.4
90°	32.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
92.5°	37.6	37.1	37.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
95°	42.7	42.7	42.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
97.5°	48.3	48.3	48.3	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
100°	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
102.5°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	61.0	60.5	60.5	60.5
105°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	68.1	67.1	67.1	67.1
107.5°	74.2	74.2	74.7	74.7	74.7	74.7	74.7	75.2	74.7	74.7	74.7
110°	81.3	81.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3

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Scaled Data Report

REPORT NUMBER: P821358
CATALOG NUMBER: TT-D2-750-24VDC-MQ-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.9	89.9	90.9	90.9	90.9	*90.9*	91.4	91.4	90.9	90.9	90.9
115°	98.6	98.6	99.6	99.6	99.6	*99.6*	100.6	100.6	99.6	99.6	99.6
117.5°	108.8	108.8	109.2	109.8	109.8	*109.8*	110.8	110.8	109.8	109.8	109.8
120°	118.9	118.9	118.9	119.9	119.9	*119.9*	121.0	121.0	119.9	119.9	119.9
122.5°	130.6	130.6	131.1	131.6	131.6	*131.6*	132.6	132.6	132.1	132.1	131.6
125°	142.3	142.3	143.3	143.3	143.3	*143.3*	144.3	144.3	144.3	144.3	143.3
127.5°	155.0	155.0	156.0	156.0	156.0	*156.0*	157.0	157.0	157.0	157.0	156.0
130°	167.7	167.7	168.7	168.7	168.7	*168.7*	169.7	169.7	169.7	169.7	168.7
132.5°	180.9	180.9	181.4	181.4	181.4	*181.9*	182.4	182.4	182.4	182.4	181.9
135°	194.1	194.1	194.1	194.1	194.1	*195.1*	195.1	195.1	195.1	195.1	195.1
137.5°	206.8	206.3	206.8	206.3	206.8	*207.3*	207.3	207.3	207.3	207.3	207.3
140°	219.5	218.5	219.5	218.5	219.5	*219.5*	219.5	219.5	219.5	219.5	219.5
142.5°	231.2	230.7	231.2	230.2	231.2	*231.2*	231.2	231.2	231.2	231.2	231.2
145°	242.9	242.9	242.9	241.9	242.9	*242.9*	242.9	242.9	242.9	242.9	242.9
147.5°	255.1	254.6	255.1	254.1	255.1	*255.1*	255.1	255.1	255.1	255.1	255.1
150°	267.3	266.3	267.3	266.3	267.3	*267.3*	267.3	267.3	267.3	267.3	267.3
152.5°	277.0	276.5	277.5	276.5	277.0	*277.0*	277.5	277.0	277.0	277.0	277.0
155°	286.6	286.6	287.6	286.6	286.6	*286.6*	287.6	286.6	286.6	286.6	286.6
157.5°	294.8	294.8	295.8	294.8	294.8	*294.8*	295.8	294.8	294.8	294.8	294.8
160°	302.9	302.9	303.9	302.9	302.9	*302.9*	303.9	302.9	302.9	302.9	302.9
162.5°	309.5	309.5	310.5	309.5	309.5	*309.5*	310.5	309.5	309.5	309.5	309.5
165°	316.1	316.1	317.1	316.1	316.1	*316.1*	317.1	316.1	316.1	316.1	316.1
167.5°	320.2	320.2	321.2	320.2	320.2	*320.2*	321.2	320.2	320.2	320.2	320.2
170°	324.2	324.2	325.2	324.2	324.2	*324.2*	325.2	324.2	324.2	324.2	324.2
172.5°	326.8	326.8	327.8	326.8	327.2	*326.8*	327.8	326.8	326.8	326.8	326.8
175°	329.3	329.3	330.3	329.3	330.3	*329.3*	330.3	329.3	329.3	329.3	329.3
177.5°	330.3	330.3	330.8	330.3	330.8	*330.3*	330.8	330.3	330.3	330.3	330.3
180°	331.3	331.3	331.3	331.3	331.3	*331.3*	331.3	331.3	331.3	331.3	331.3

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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: SP1-2407-176-6

Test Date: 09/26/2024

Luminaire Tested: MEM2-HTN-VA-30-750-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-750-U-WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

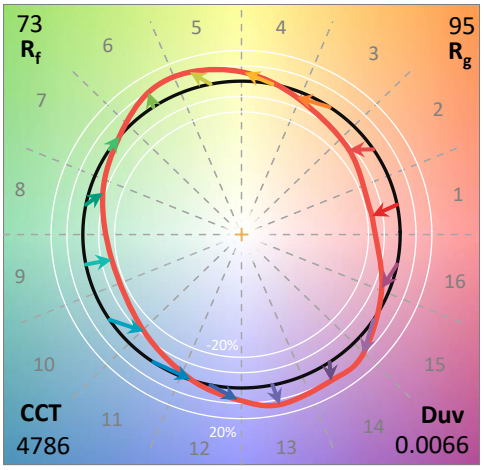
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-6
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/27/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-VA-30-750-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	4786
CIE u':	0.2093
CIE v':	0.4953
Duv:	0.0066
CIE x:	0.3533
CIE y:	0.3716
CIE z:	0.2751
Peak Wavelength (nm):	449
Dominant Wavelength (nm):	570
Purity:	17.53512
Rf:	73
Rg:	94.6

CRI (Ra):	70.9				
R1:	67.8	R9:	-29.8		
R2:	75.1	R10:	40.9		
R3:	80.6	R11:	67.4		
R4:	71.6	R12:	35.3		
R5:	67.8	R13:	68.5		
R6:	65.4	R14:	89.0		
R7:	82.0	R15:	60.9		
R8:	57.0				



Test Conditions

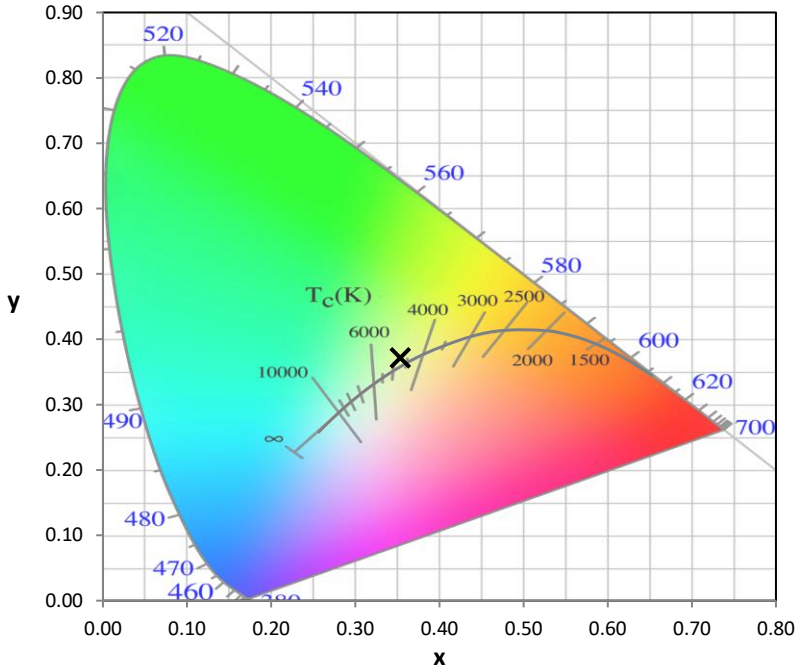
Stabilization Time:	45M
Operation Time:	1H 45M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-6

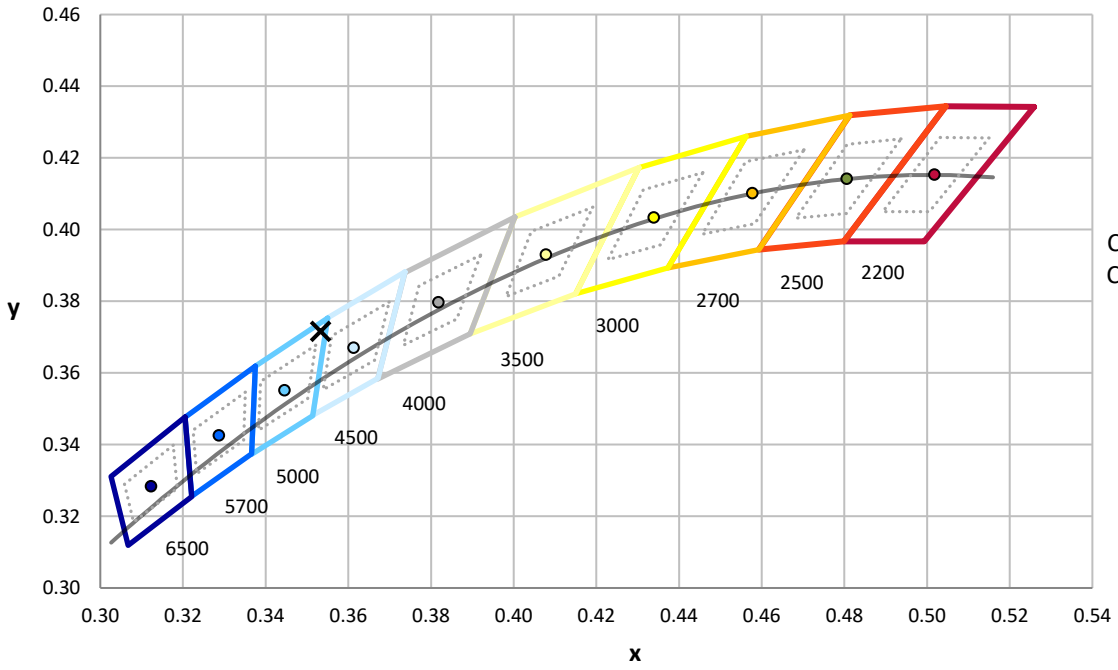
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-6

CIE 1931 Chromaticity Diagram



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

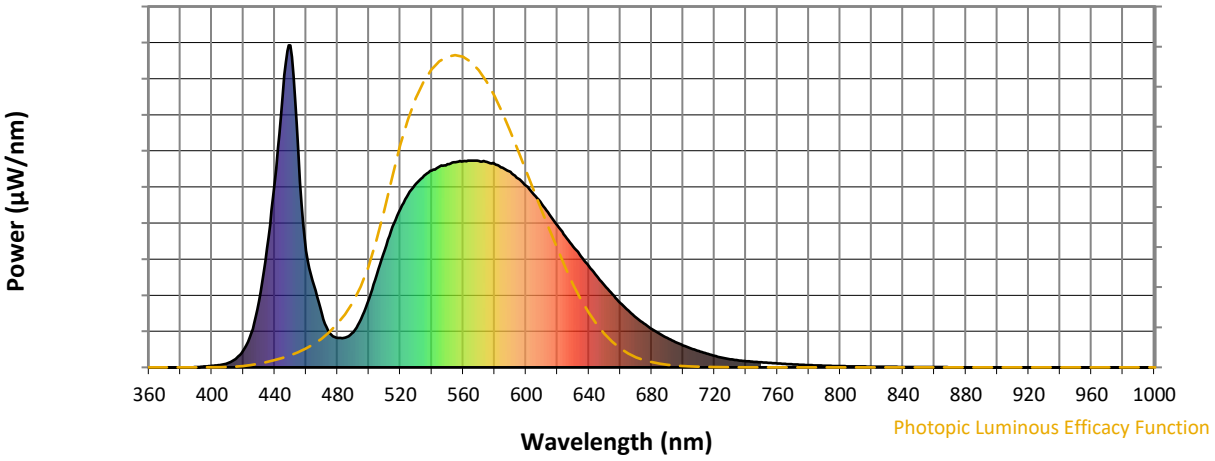


CCT = 4786K
CIE x = 0.3533
CIE y = 0.3716
Duv = 0.0066

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

Photopic Flux vs. Wavelength

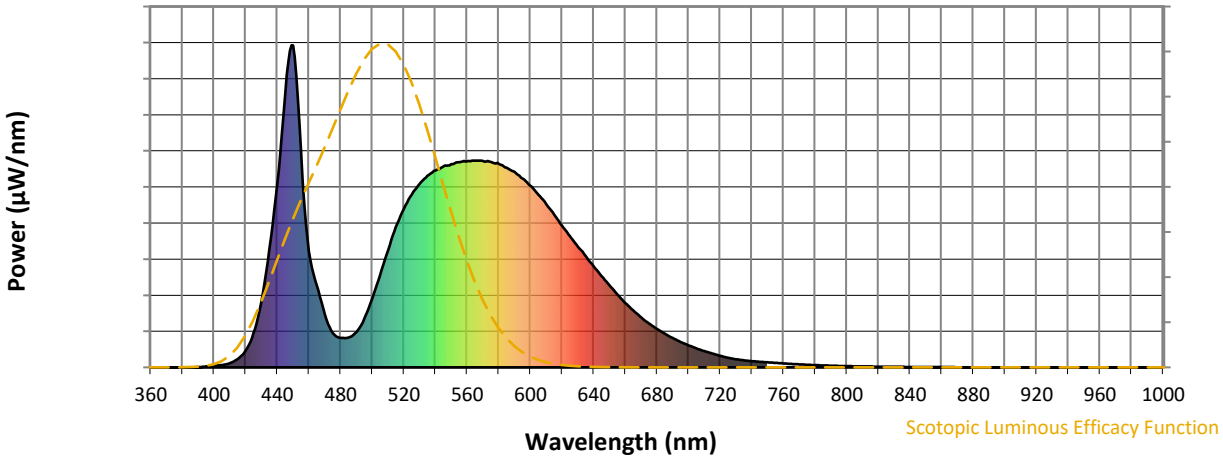


Photopic Lumens: NR

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

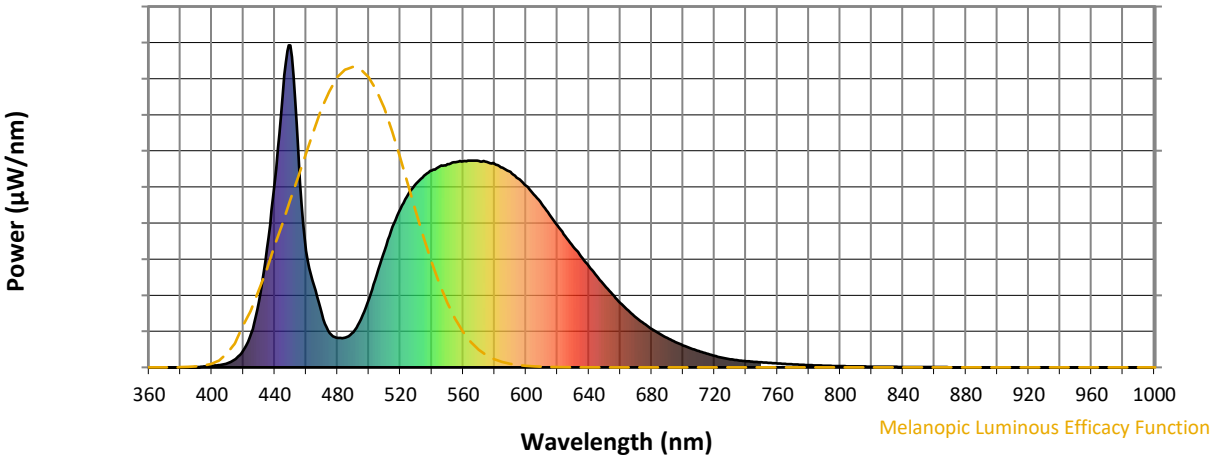


Scotopic Lumens: NR **S/P: 1.69**

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.36**

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

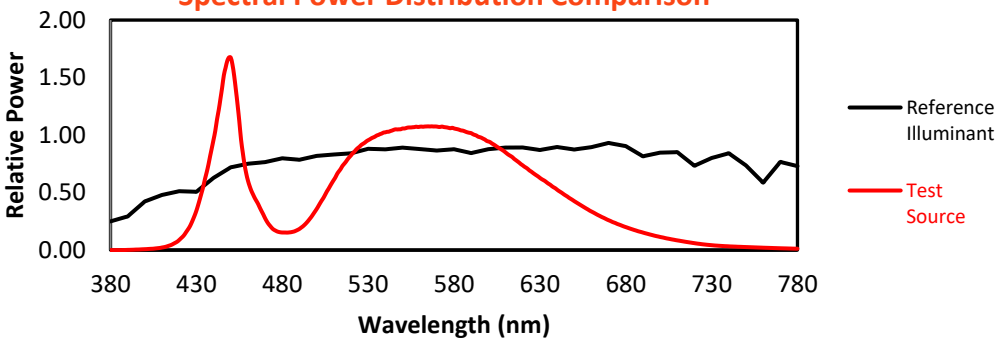
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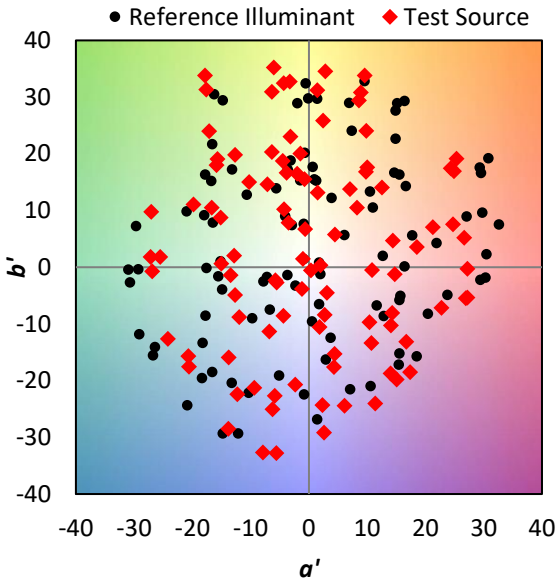
Summary

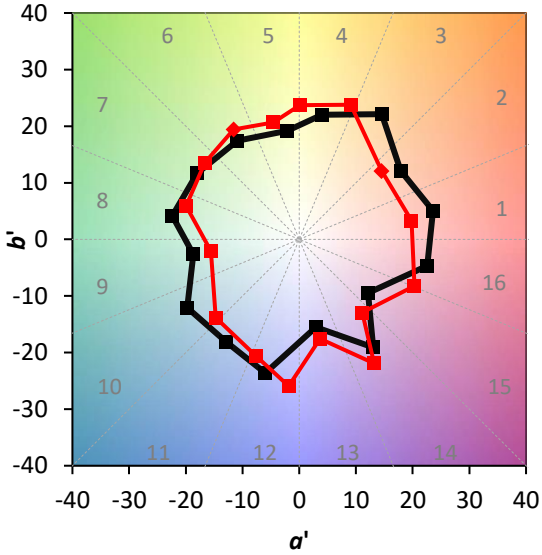
R_f = 73
R_g = 94.6
CIE R_a = 70.9
R_9 = -29.8

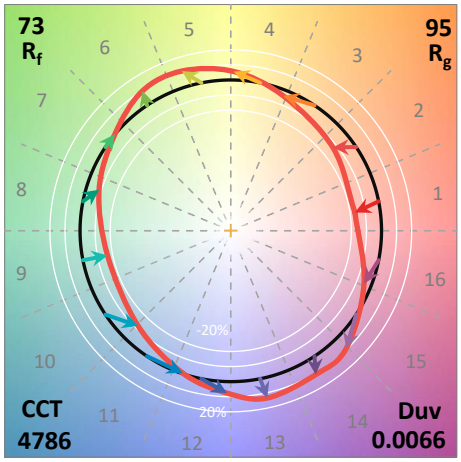
Spectral Power Distribution Comparison

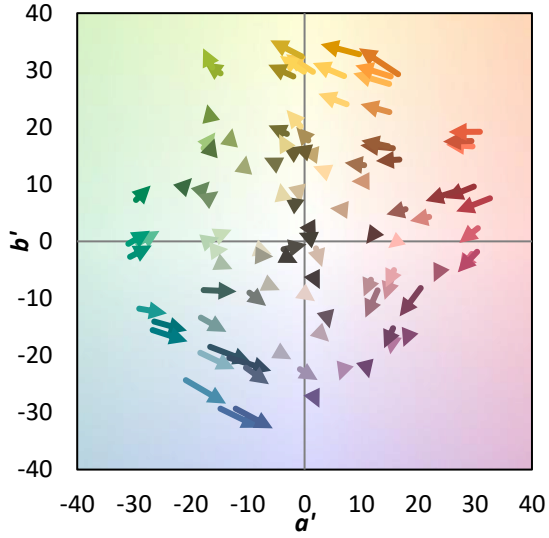


Color Vector Graphics







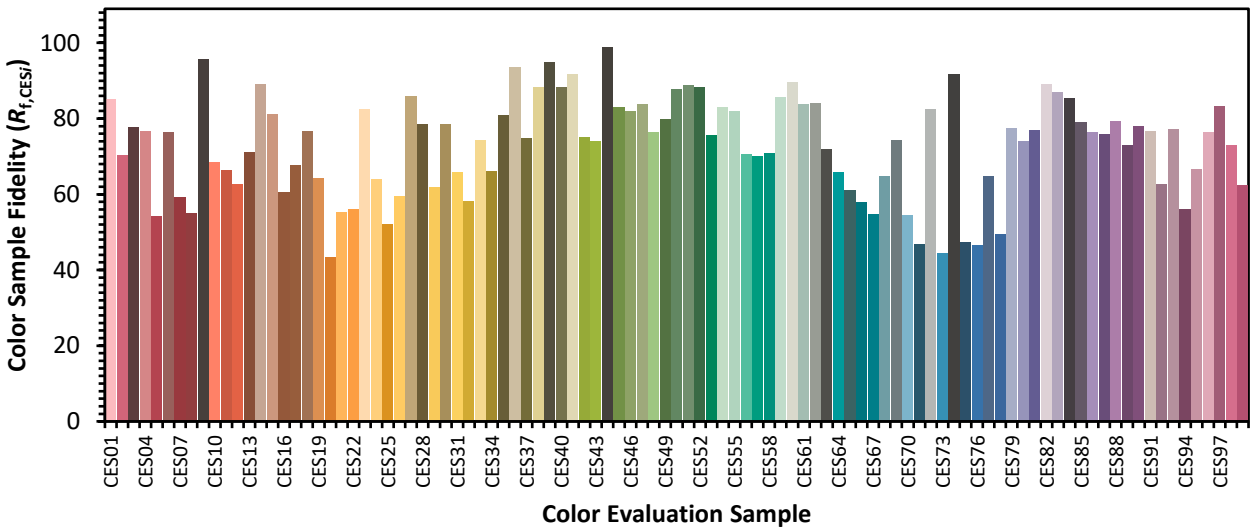


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Individual Sample Fidelity Index ($R_{f,i}$)

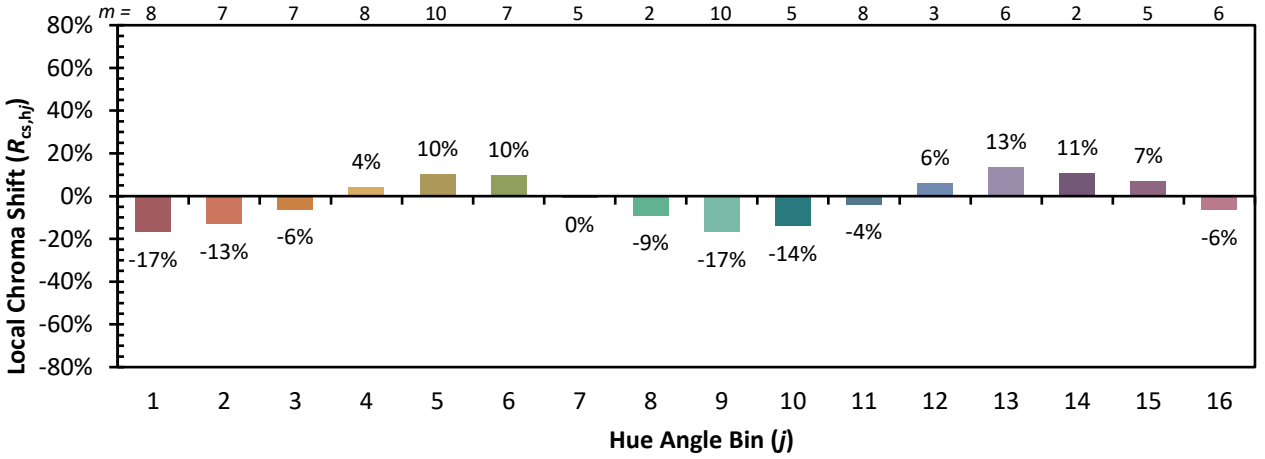
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82 = 89
CES08 = 38	CES33 = 74	CES58 = 71	CES83 = 87
CES09 = 29	CES34 = 66	CES59 = 86	CES84 = 86
CES10 = 72	CES35 = 81	CES60 = 90	CES85 = 79
CES11 = 56	CES36 = 94	CES61 = 84	CES86 = 76
CES12 = 61	CES37 = 75	CES62 = 84	CES87 = 76
CES13 = 41	CES38 = 88	CES63 = 72	CES88 = 79
CES14 = 74	CES39 = 95	CES64 = 66	CES89 = 73
CES15 = 70	CES40 = 88	CES65 = 61	CES90 = 78
CES16 = 46	CES41 = 92	CES66 = 58	CES91 = 77
CES17 = 49	CES42 = 75	CES67 = 55	CES92 = 63
CES18 = 55	CES43 = 74	CES68 = 65	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 74	CES94 = 56
CES20 = 64	CES45 = 83	CES70 = 55	CES95 = 67
CES21 = 85	CES46 = 82	CES71 = 47	CES96 = 76
CES22 = 77	CES47 = 84	CES72 = 82	CES97 = 83
CES23 = 91	CES48 = 76	CES73 = 44	CES98 = 73
CES24 = 90	CES49 = 80	CES74 = 92	CES99 = 62
CES25 = 71	CES50 = 88	CES75 = 47	

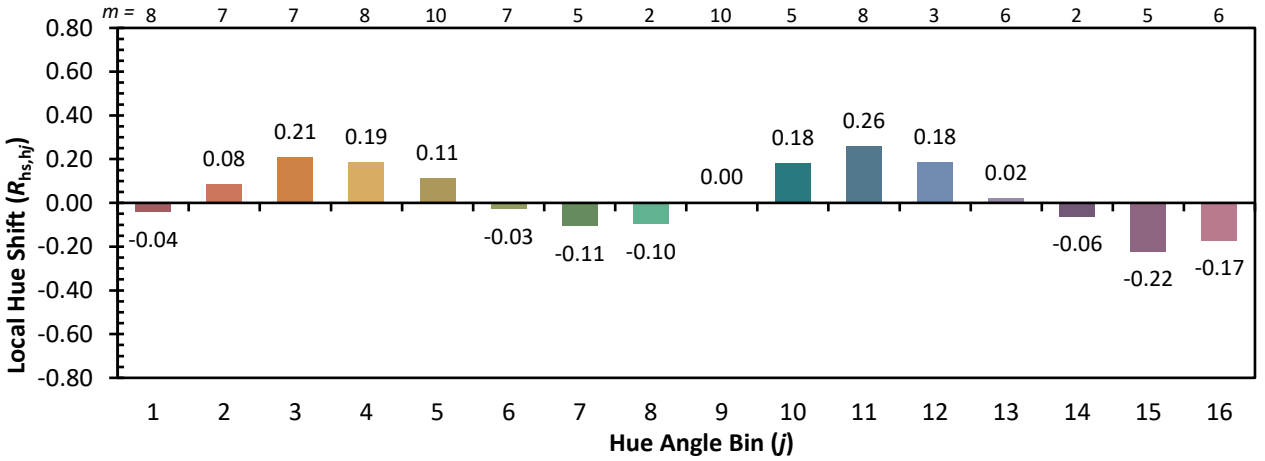


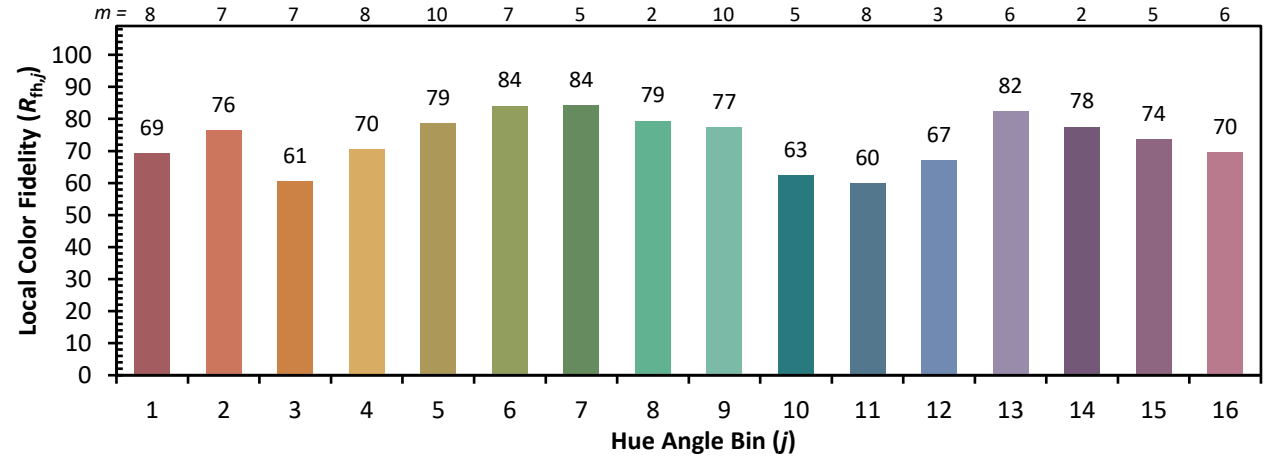
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Color Rendition by Hue-Angle Bin



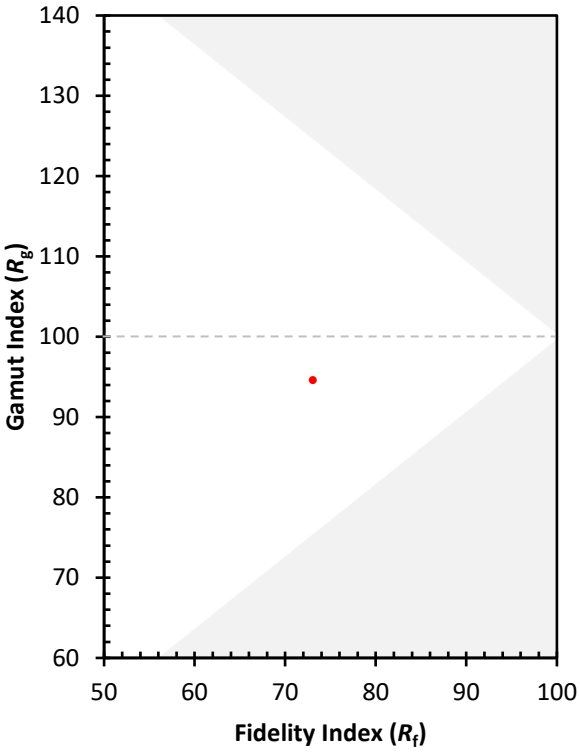


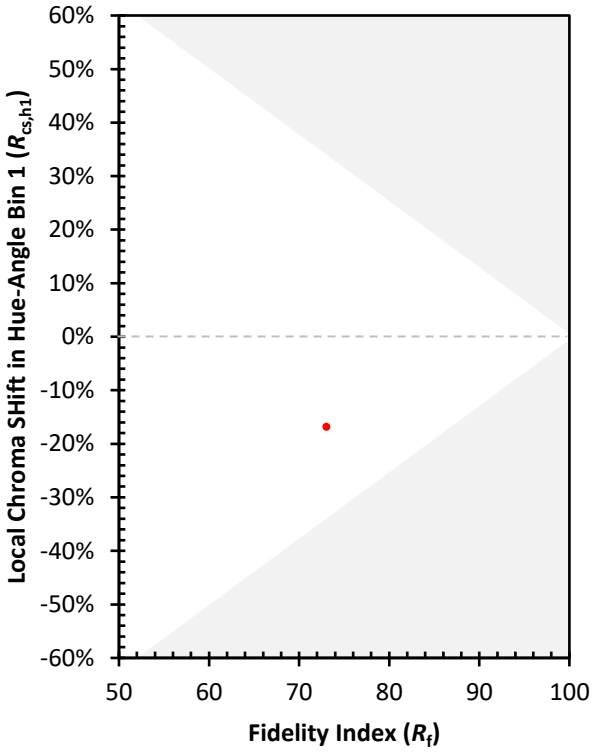


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Measure Comparisons





(END OF REPORT)