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: P821367

Luminaire Tested: **TT-D3-750-24VDC-CQ-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:	P821367
	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-D3-750-24VDC-CQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT WITH UPLIGHT
	5000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7188.4 lumens
Efficiency:	N/A
Efficacy:	156.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B2 - U4 - G1

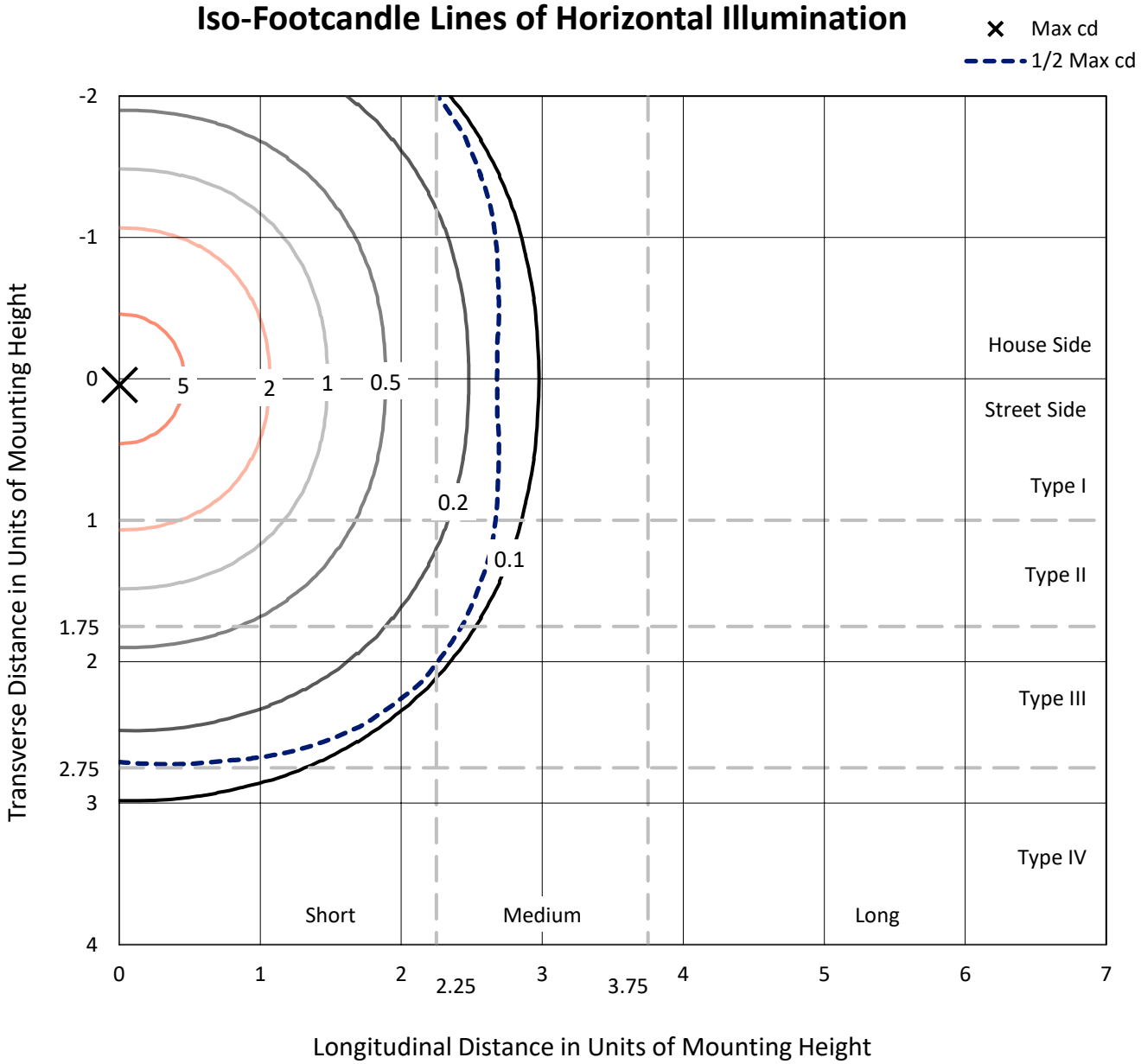
Input Watts (W):	46
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821367
CATALOG NUMBER: TT-D3-750-24VDC-CQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



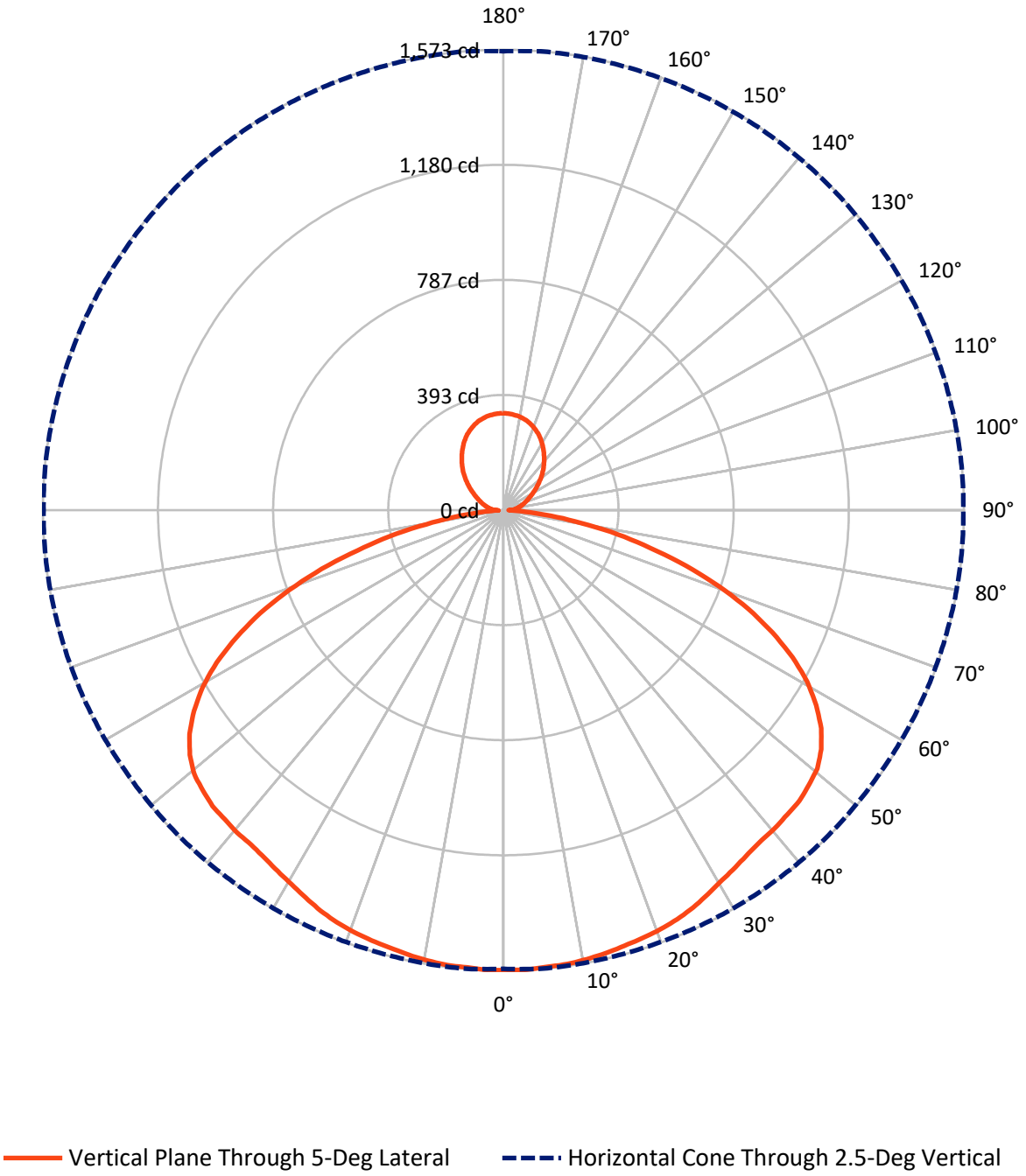
Based on 15 foot mounting height. Maximum calculated value = 7 fc
Type V - Short - N/A

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REPORT NUMBER: P821367
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Luminous Intensity Polar Plot



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Scaled Data Report

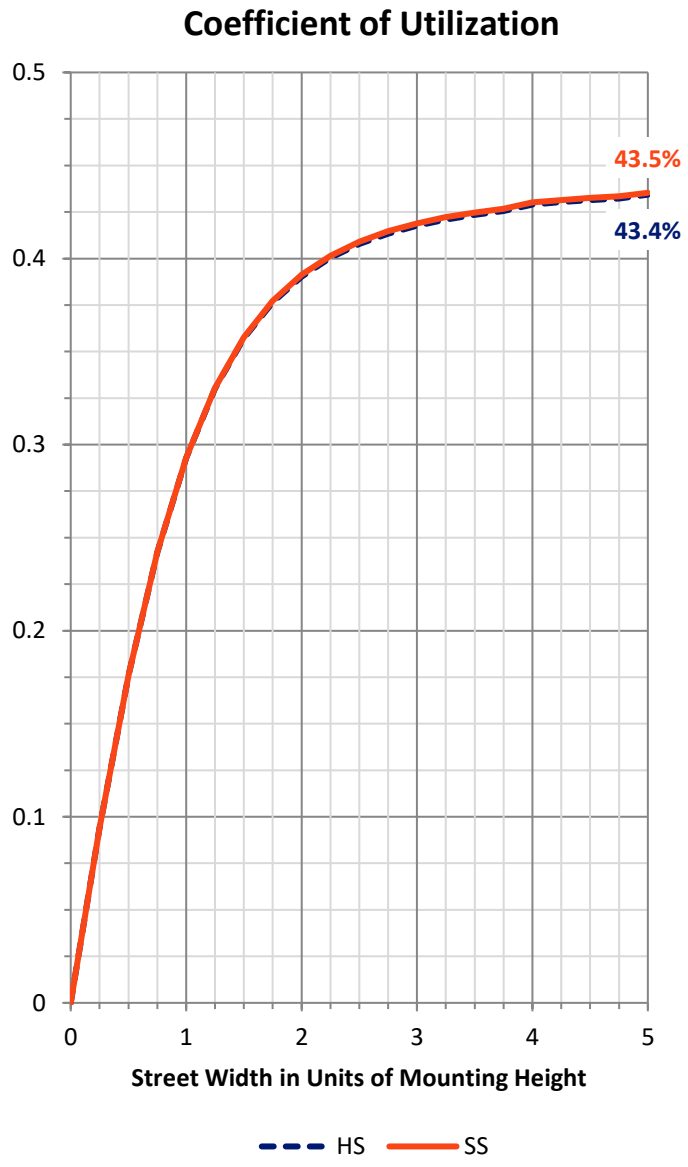
REPORT NUMBER: P821367
CATALOG NUMBER: TT-D3-750-24VDC-CQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3144.2	450.0	3594.2
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	3144.2	450.0	3594.2
	% Fixture	43.7	6.3	50.0
Total	Lumens	6288.4	900.0	7188.4
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.1
10°-20°	437.9	6.1
20°-30°	696.4	9.7
30°-40°	916.1	12.7
40°-50°	1121.2	15.6
50°-60°	1214.4	16.9
60°-70°	1044.8	14.5
70°-80°	587.3	8.2
80°-90°	120.8	1.7
90°-100°	46.1	0.6
100°-110°	71.4	1.0
110°-120°	99.4	1.4
120°-130°	128.8	1.8
130°-140°	150.0	2.1
140°-150°	152.1	2.1
150°-160°	131.9	1.8
160°-170°	89.0	1.2
170°-180°	31.3	0.4
0°-90°	6288.4	87.5
0°-180°	7188.4	100.0



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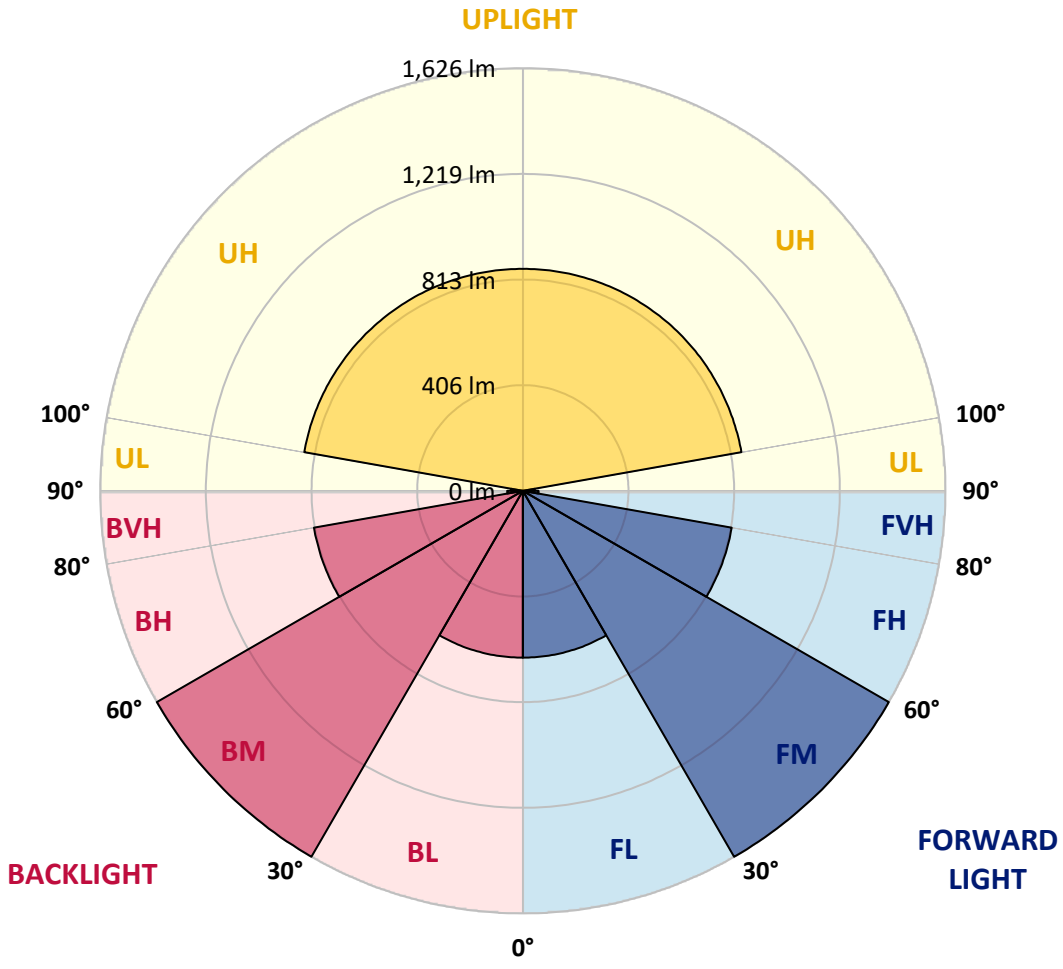
Scaled Data Report

REPORT NUMBER: P821367
CATALOG NUMBER: TT-D3-750-24VDC-CQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	641.9	8.9			
FM	(30°-60°)	1625.9	22.6			
FH	(60°-80°)	816.0	11.4			G1/1800
FVH	(80°-90°)	60.4	0.8			G1/100
BL	(0°-30°)	641.9	8.9	B2/1000		
BM	(30°-60°)	1625.9	22.6	B2/2500		
BH	(60°-80°)	816.0	11.4	B2/1000		G1/1800
BVH	(80°-90°)	60.4	0.8			G1/100
UL	(90°-100°)	46.1	0.6		U2/50	
UH	(100°-180°)	853.9	11.9		U4/1000	

BUG Rating: B2-U4-G1
Type V Short



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Scaled Data Report

REPORT NUMBER: P821367
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1
2.5°	1568.1	1573.1	1571.1	1571.1	1571.1	1571.1	1569.1	1571.1	1571.1	1572.1	1571.1
5°	1569.1	1568.1	1568.1	1569.1	1569.1	1570.1	1568.1	1569.1	1570.1	1570.1	1571.1
7.5°	1566.1	1567.1	1565.1	1567.1	1565.1	1566.1	1566.1	1567.1	1566.1	1567.1	1569.1
10°	1560.1	1561.1	1560.1	1560.1	1560.1	1562.1	1558.1	1561.1	1560.1	1561.1	1560.1
12.5°	1549.1	1554.1	1552.1	1554.1	1554.1	1554.1	1551.1	1553.1	1554.1	1554.1	1554.1
15°	1544.1	1545.1	1542.1	1546.1	1547.1	1548.1	1544.1	1546.1	1546.1	1547.1	1548.1
17.5°	1533.1	1538.1	1537.1	1540.1	1539.1	1542.1	1541.1	1540.1	1539.1	1541.1	1539.1
20°	1525.1	1530.1	1529.1	1532.1	1533.1	1536.1	1533.1	1533.1	1530.1	1531.1	1534.1
22.5°	1517.1	1519.1	1519.1	1522.1	1522.1	1525.1	1522.1	1521.1	1521.1	1520.1	1523.1
25°	1504.1	1505.1	1504.1	1507.1	1509.1	1511.1	1510.1	1508.1	1507.1	1507.1	1506.1
27.5°	1483.1	1487.1	1489.1	1493.1	1494.1	1497.1	1493.1	1493.1	1491.1	1489.1	1490.1
30°	1467.1	1469.1	1469.1	1478.1	1478.1	1483.1	1478.1	1477.1	1476.1	1475.1	1473.1
32.5°	1452.1	1455.1	1458.1	1465.1	1470.1	1472.1	1469.1	1467.1	1462.1	1459.1	1458.1
35°	1440.1	1441.1	1447.1	1457.1	1463.1	1468.1	1464.1	1459.1	1452.1	1447.1	1451.1
37.5°	1431.1	1432.1	1441.1	1454.1	1465.1	1469.1	1463.1	1455.1	1444.1	1438.1	1436.1
40°	1423.1	1429.1	1439.1	1457.1	1469.1	1475.1	1470.1	1459.1	1443.1	1431.1	1430.1
42.5°	1419.1	1422.1	1437.1	1458.1	1475.1	1483.1	1476.1	1461.1	1441.1	1427.1	1426.1
45°	1409.1	1418.1	1432.1	1459.1	1478.1	1488.1	1478.1	1459.1	1435.1	1419.1	1416.1
47.5°	1401.1	1404.1	1426.1	1457.1	1480.1	1488.1	1478.1	1454.1	1424.1	1403.1	1401.1
50°	1382.1	1389.1	1411.1	1444.1	1471.1	1479.1	1467.1	1435.1	1401.1	1378.1	1374.1
52.5°	1353.1	1359.1	1385.1	1426.1	1452.1	1461.1	1443.1	1409.1	1369.1	1341.1	1341.1
55°	1308.1	1317.1	1344.1	1386.1	1419.1	1427.1	1406.1	1370.1	1325.1	1297.1	1296.1
57.5°	1254.1	1260.1	1289.1	1335.1	1367.1	1379.1	1358.1	1318.1	1273.1	1240.1	1237.1
60°	1184.1	1192.1	1223.1	1267.1	1300.1	1310.1	1292.1	1252.1	1206.1	1171.1	1171.1
62.5°	1100.1	1109.1	1140.1	1185.1	1219.1	1234.1	1209.1	1171.1	1123.1	1089.1	1086.1
65°	1002.0	1010.0	1038.0	1085.1	1120.1	1131.1	1112.1	1072.0	1026.0	994.0	991.0
67.5°	892.0	903.0	931.0	971.0	1001.0	1015.0	1003.0	967.0	919.0	886.0	883.0
70°	773.0	781.0	803.0	840.0	874.0	884.0	866.0	842.0	797.0	767.0	763.0
72.5°	646.0	653.0	671.0	706.0	730.0	743.0	733.0	702.0	666.0	641.0	645.0
75°	518.0	517.0	537.0	562.0	584.0	593.0	586.0	566.0	533.0	512.0	511.0
77.5°	390.0	400.0	407.0	428.0	446.0	453.0	443.0	427.0	402.0	385.0	388.0
80°	274.0	268.0	281.0	294.0	306.0	313.0	307.0	298.0	281.0	268.0	266.0
82.5°	168.0	163.0	169.0	181.0	189.0	191.0	192.0	181.0	174.0	164.0	166.0
85°	74.0	75.0	80.0	88.0	89.0	90.0	90.0	88.0	80.0	79.0	77.0
87.5°	18.0	18.0	19.0	22.0	22.0	23.0	23.0	20.0	19.0	17.0	18.0
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: P821367
CATALOG NUMBER: TT-D3-750-24VDC-CQ-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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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: SP1-2407-176-6

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

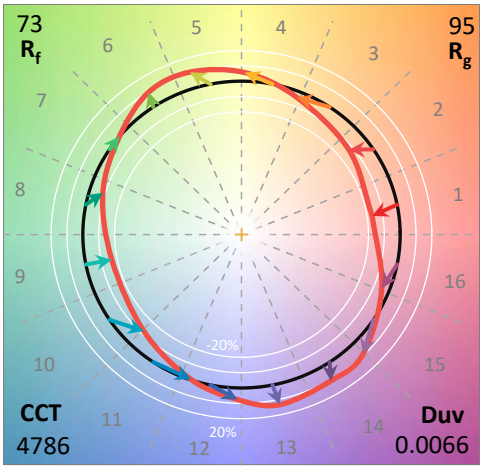
Test Information

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

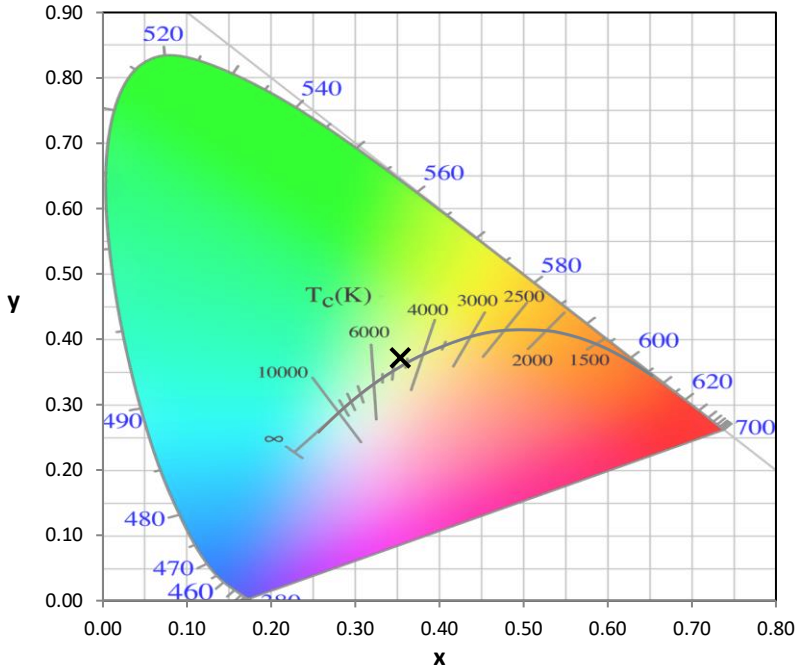
Stabilization Time:	45M
Operation Time:	1H 45M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-6

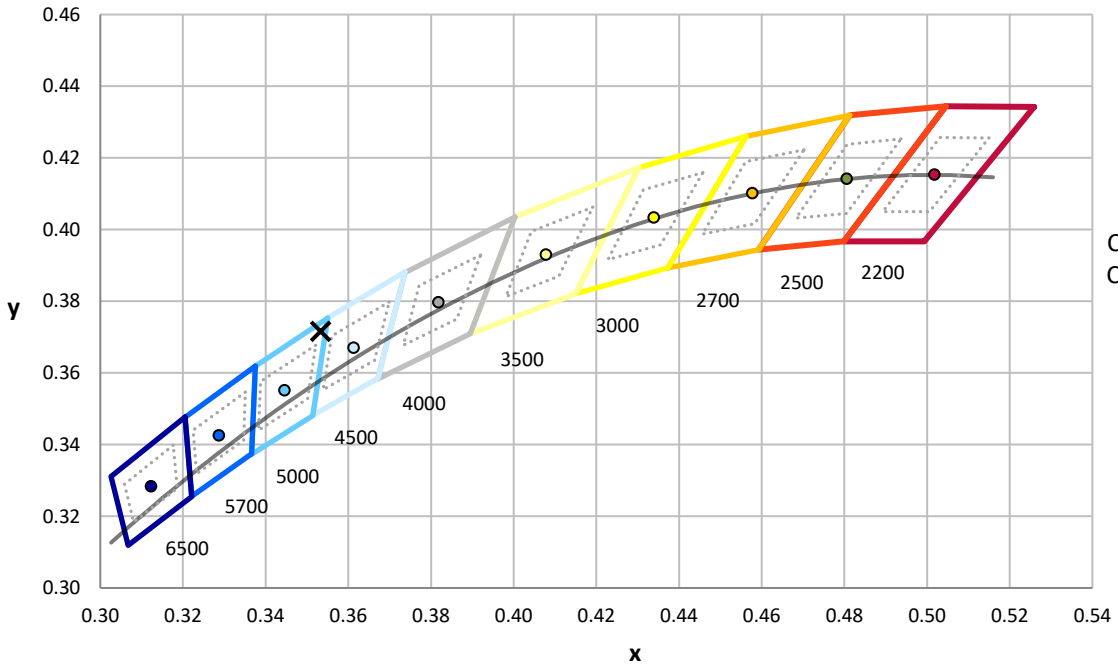
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

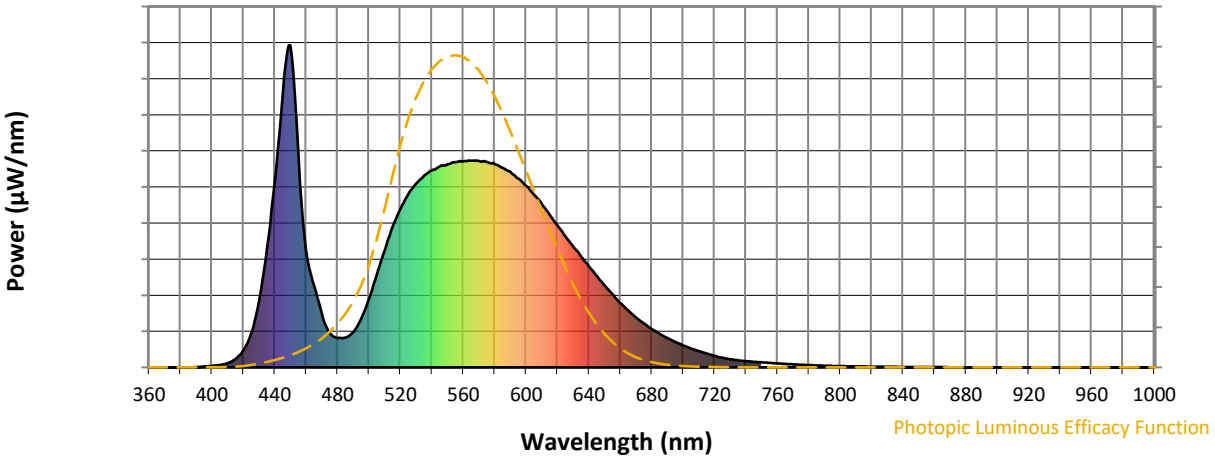


CCT = 4786K
CIE x = 0.3533
CIE y = 0.3716
Duv = 0.0066

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

Photopic Flux vs. Wavelength

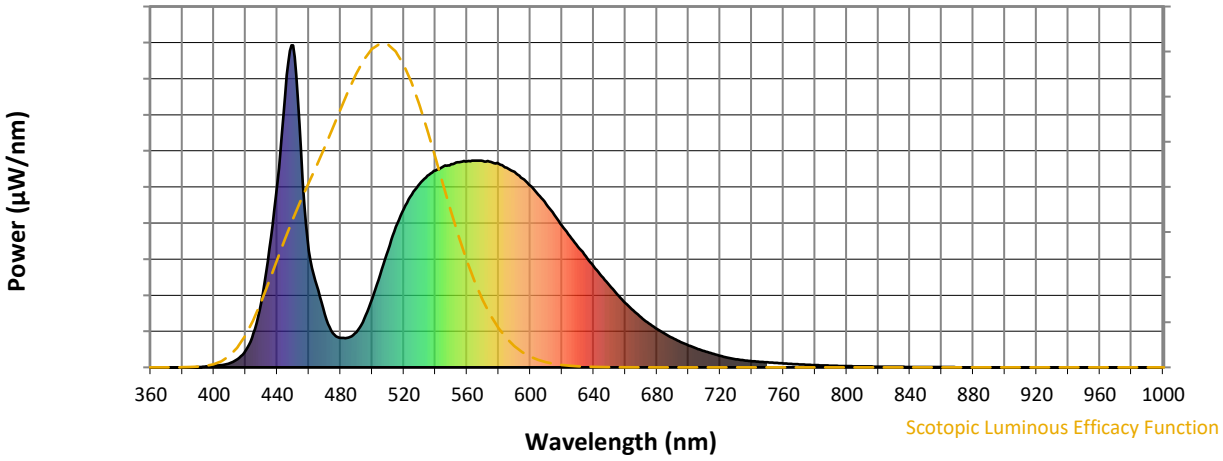


Photopic Lumens: NR

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

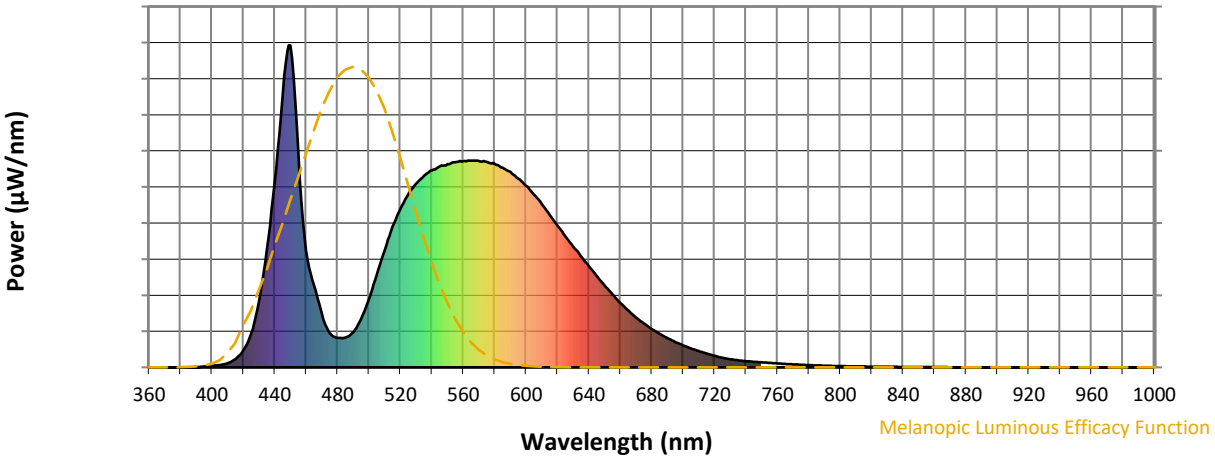


Scotopic Lumens: NR **S/P: 1.69**

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			

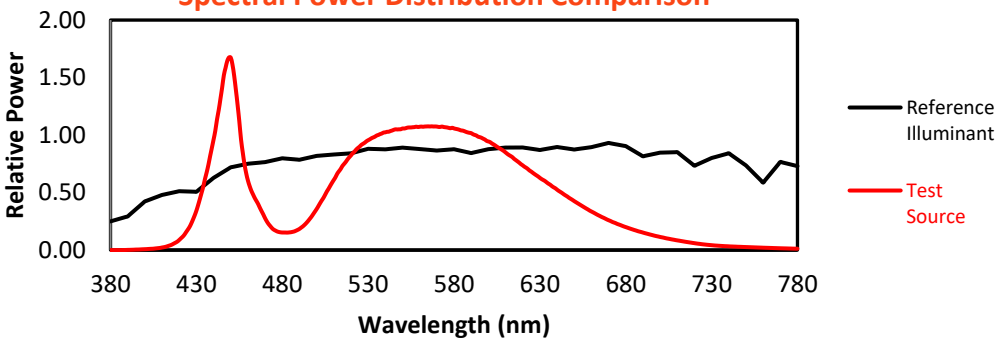
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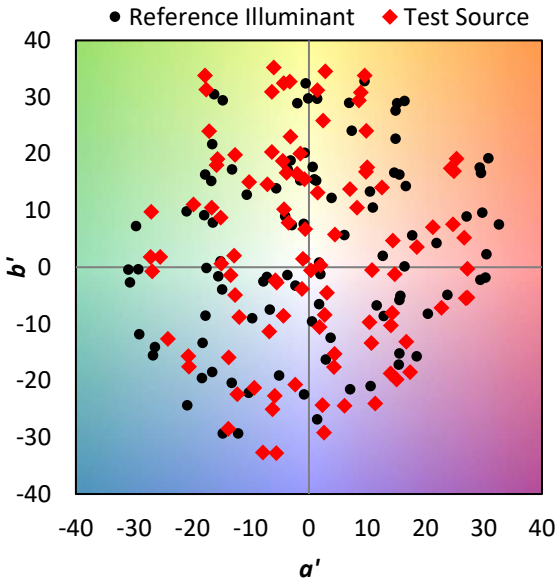
Summary

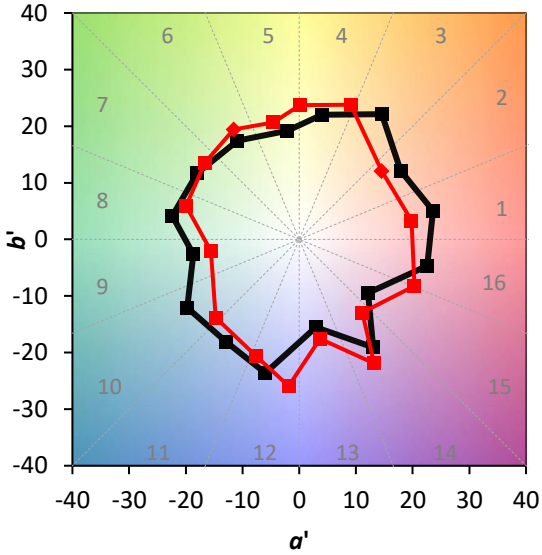
R_f = 73
R_g = 94.6
CIE R_a = 70.9
R_9 = -29.8

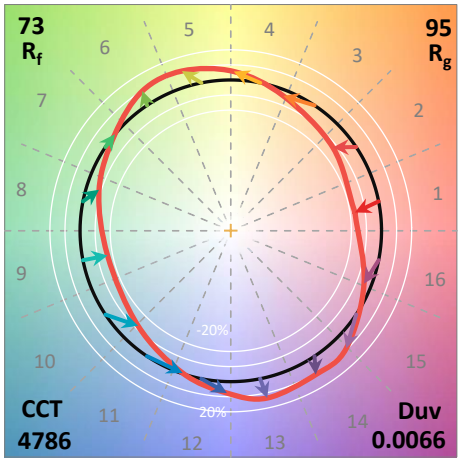
Spectral Power Distribution Comparison

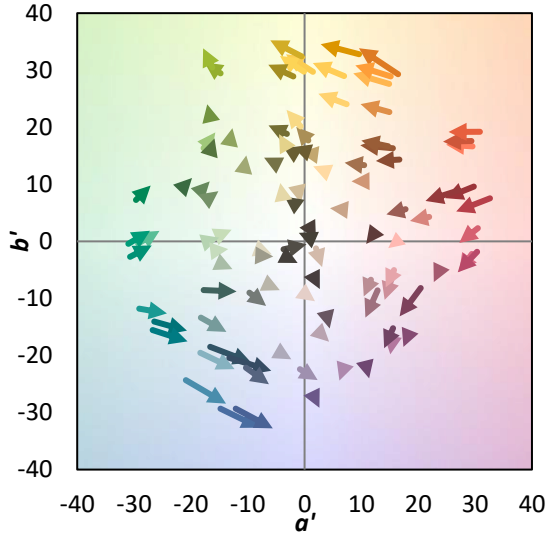


Color Vector Graphics







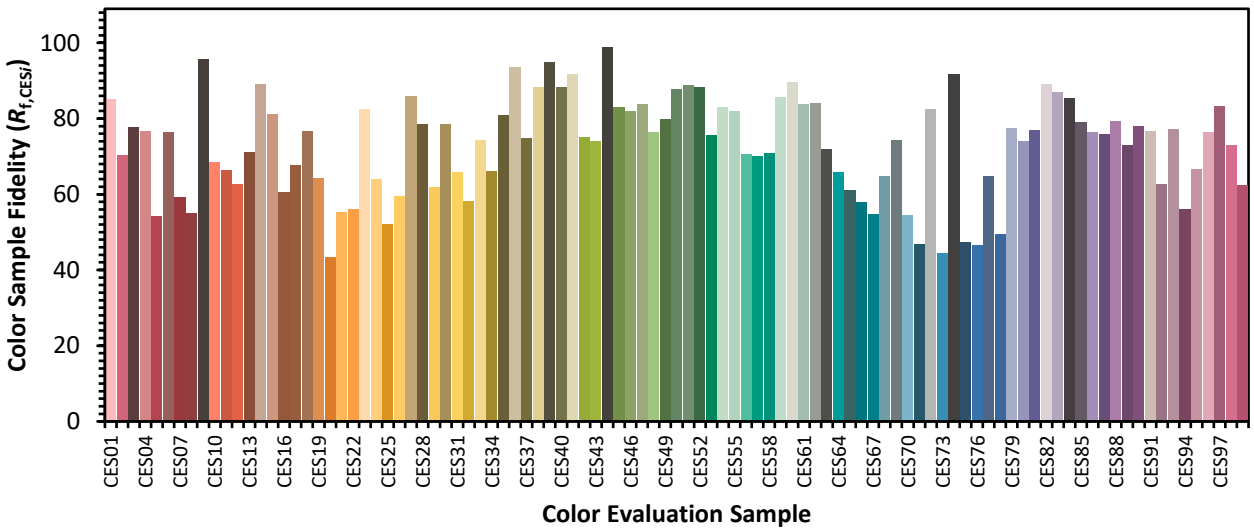


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Individual Sample Fidelity Index ($R_{f,i}$)

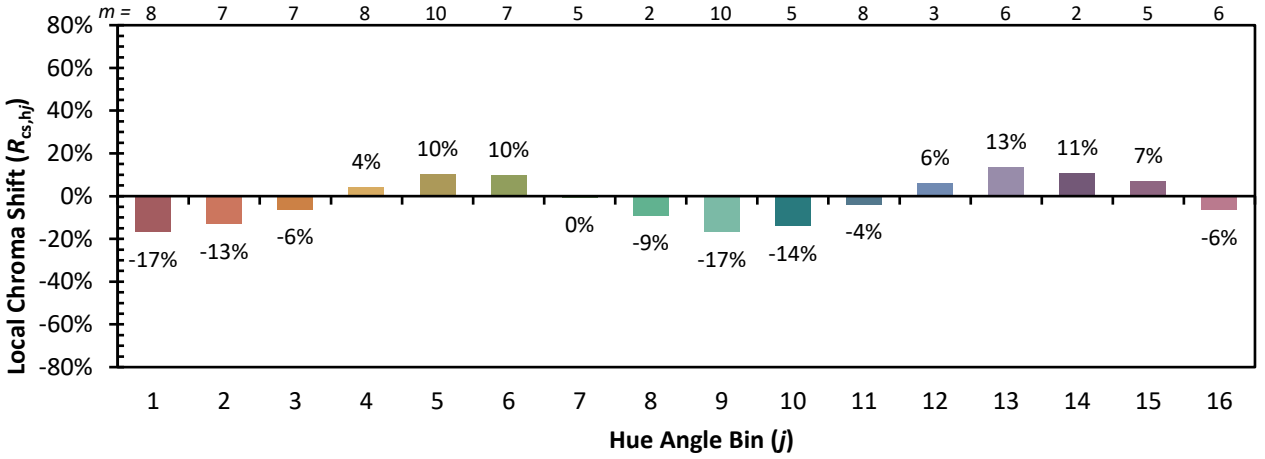
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82 = 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	

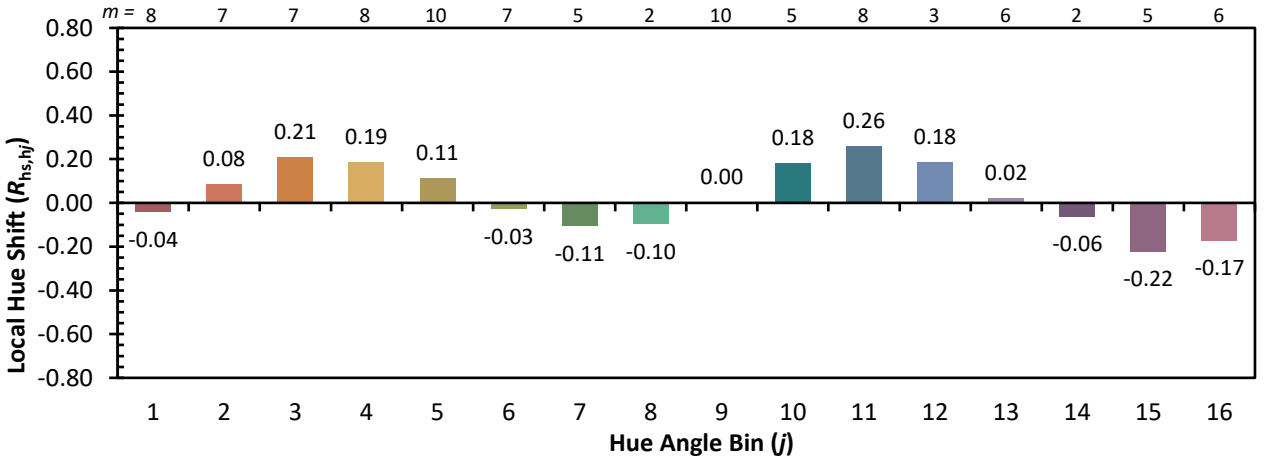


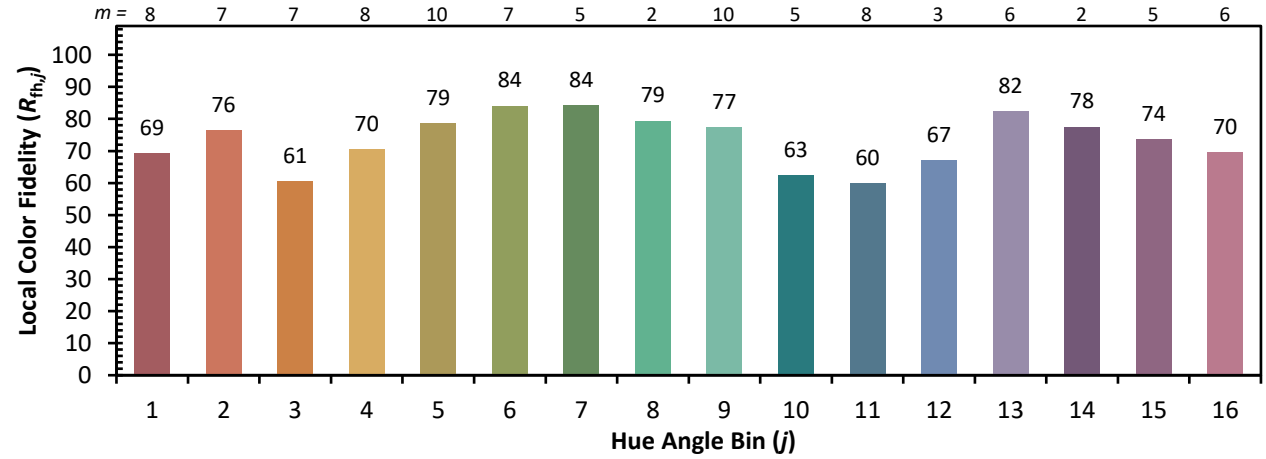
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Color Rendition by Hue-Angle Bin



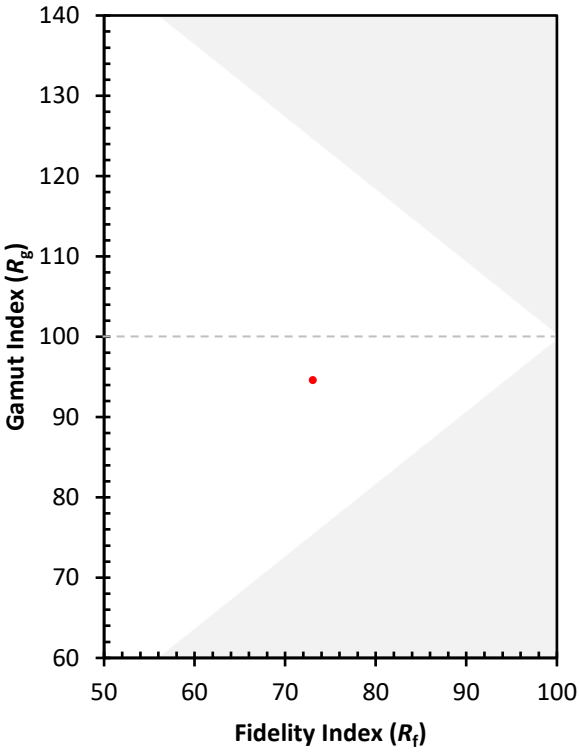


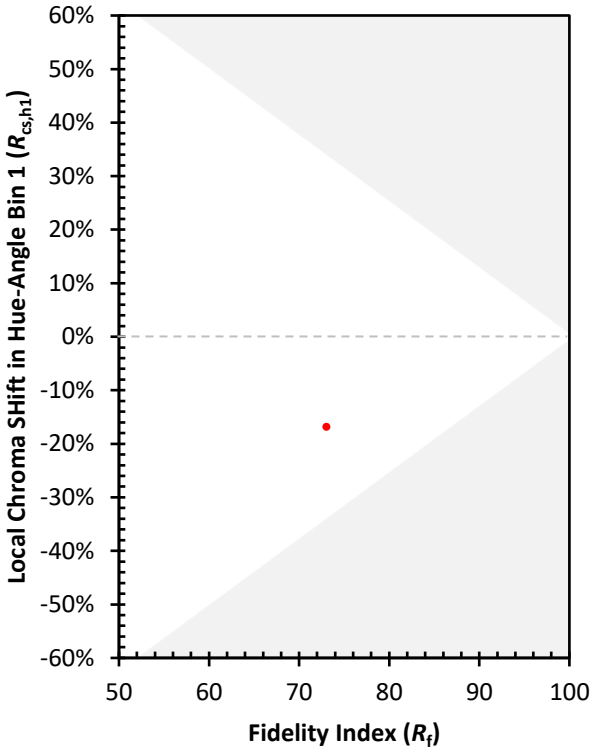


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Measure Comparisons





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