

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: McGRAW-EDISON

Report Number: P436835

Luminaire Tested: **TT-D4-735-U-MQ-HSS**

Issue Date: 12/2/2020



Test Information

Test Method: LM-79-08
Report Number: P436835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-735-U-MQ-HSS
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6366.9 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G2

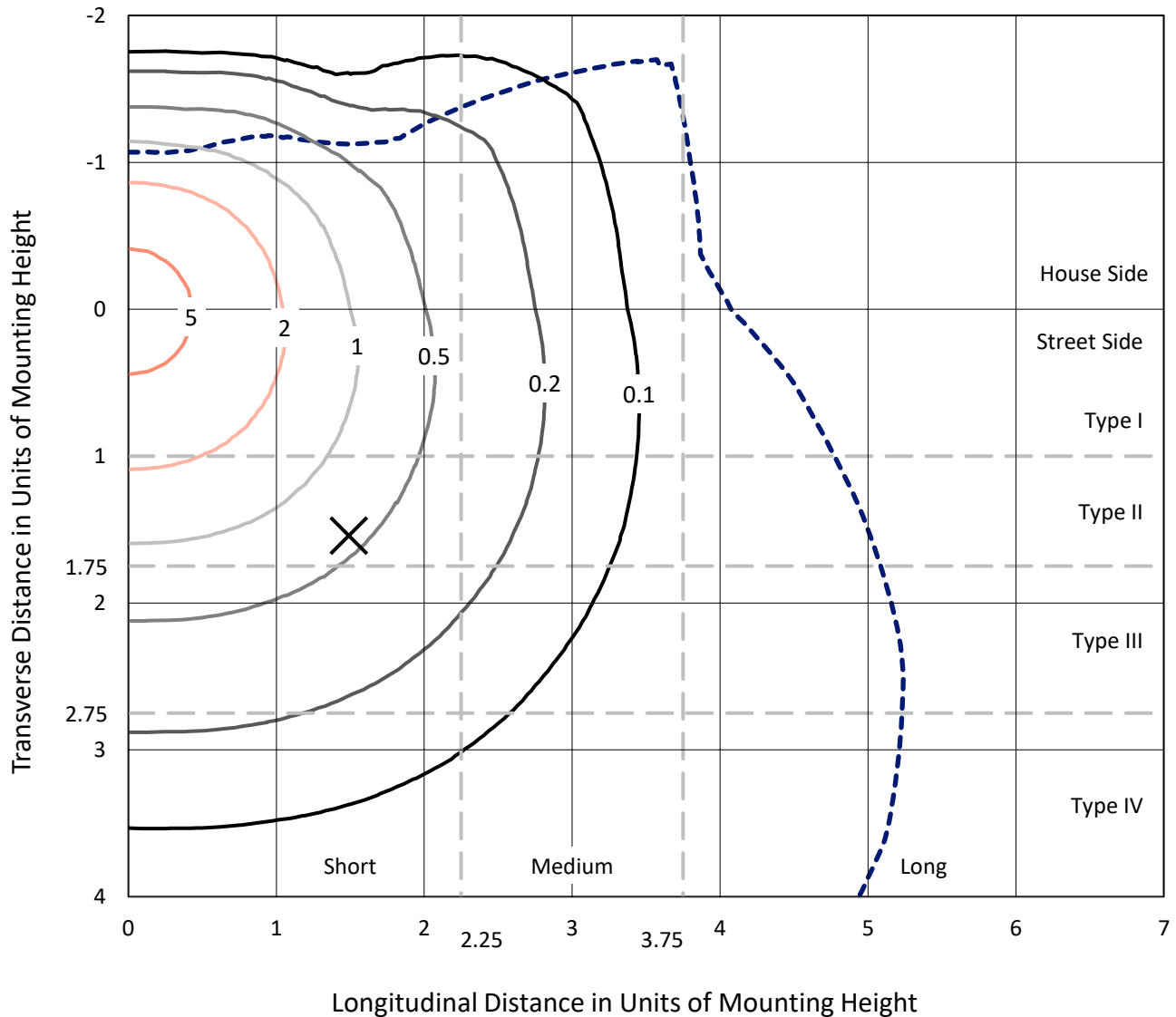
Input Watts (W): 57.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P436835

CATALOG NUMBER: TT-D4-735-U-MQ-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

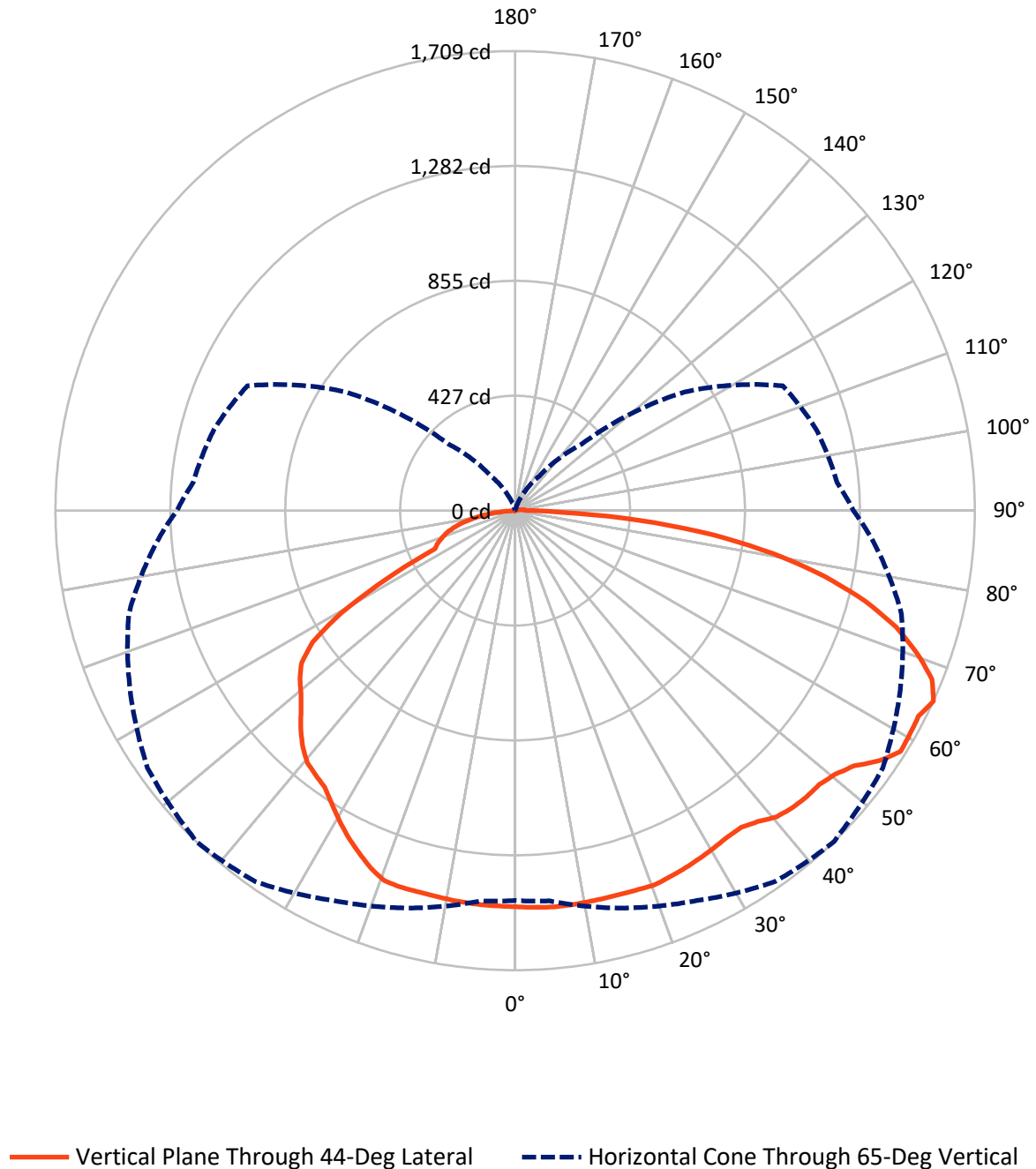


Based on 15 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P436835

CATALOG NUMBER: TT-D4-735-U-MQ-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P436835

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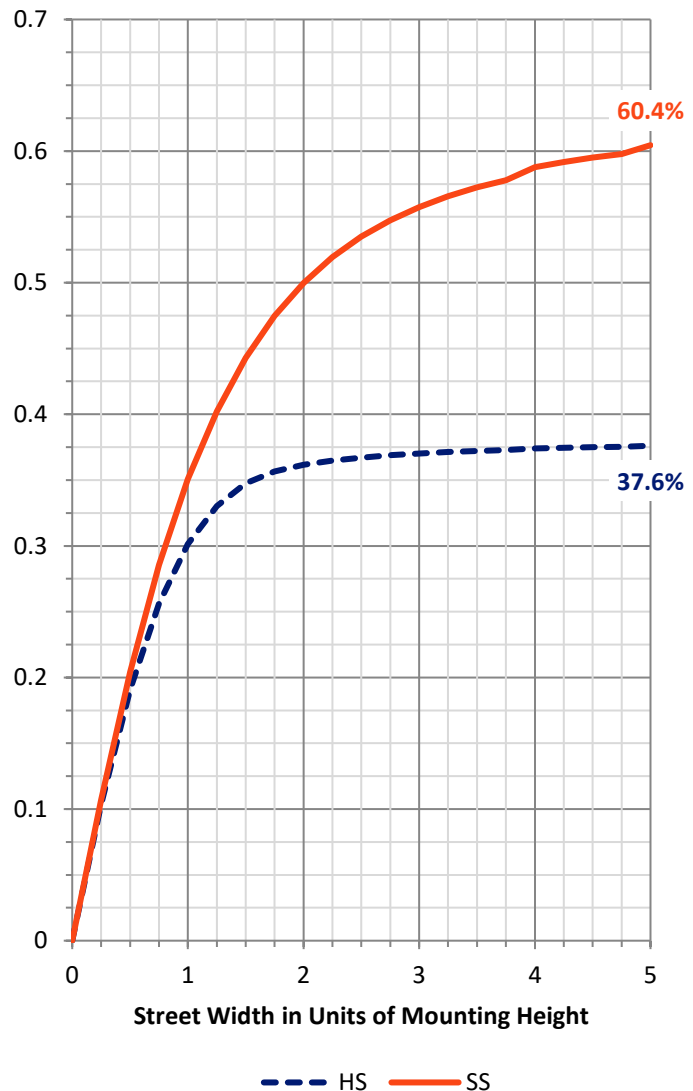
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2410.8	1.6	2412.5
	% Fixture	37.9	0.0	37.9
Street Side	Lumens	3932.9	21.6	3954.5
	% Fixture	61.8	0.3	62.1
Total	Lumens	6343.7	23.2	6366.9
	% Fixture	99.6	0.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	2.2
10°-20°	416.7	6.5
20°-30°	663.0	10.4
30°-40°	849.5	13.3
40°-50°	1006.4	15.8
50°-60°	1102.2	17.3
60°-70°	1047.7	16.5
70°-80°	834.1	13.1
80°-90°	283.4	4.5
90°-100°	14.9	0.2
100°-110°	4.9	0.1
110°-120°	1.1	0.0
120°-130°	0.7	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	6343.7	99.6
0°-180°	6366.9	100.0



REPORT NUMBER: P436835

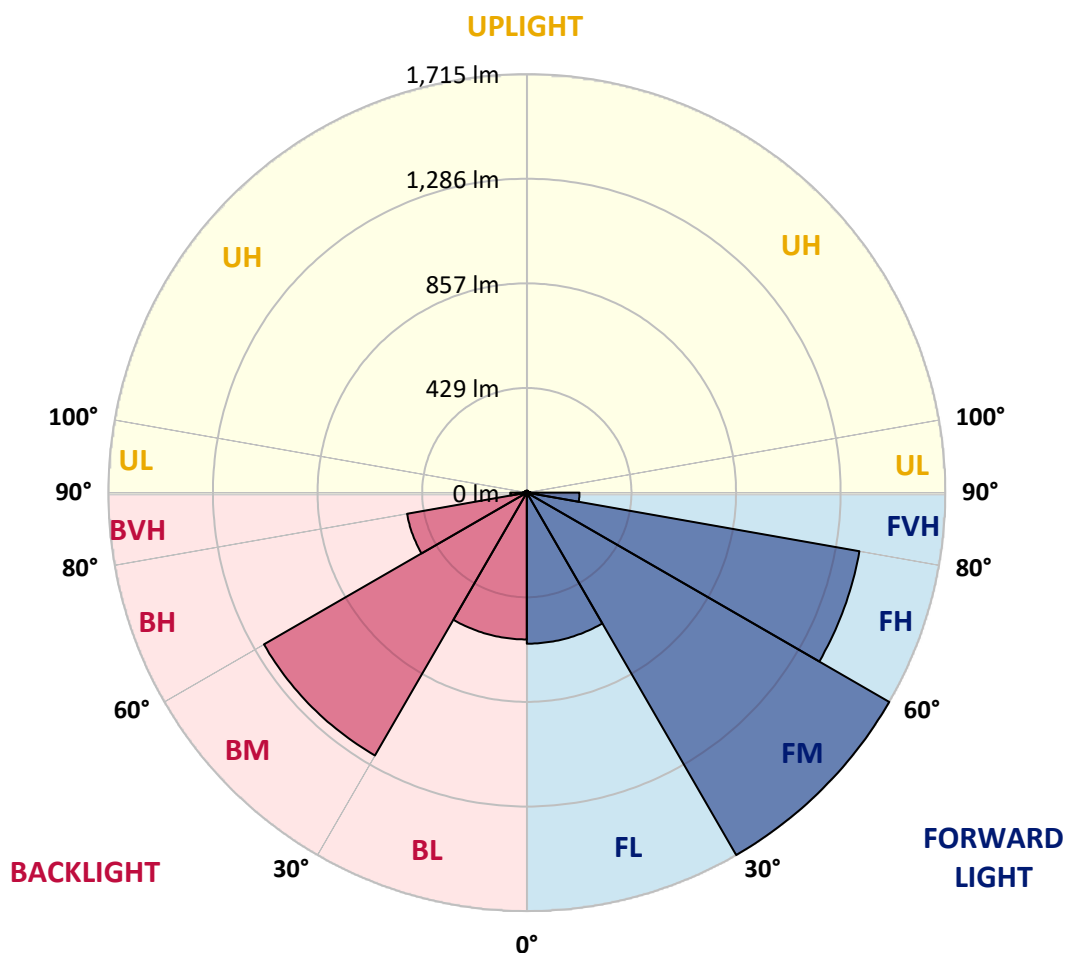
CATALOG NUMBER: TT-D4-735-U-MQ-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.9	9.7			
FM	(30°-60°)	1714.6	26.9			
FH	(60°-80°)	1383.6	21.7			G1/1800
FVH	(80°-90°)	215.8	3.4			G2/225
BL	(0°-30°)	601.6	9.4	B2/1000		
BM	(30°-60°)	1243.5	19.5	B2/2500		
BH	(60°-80°)	498.2	7.8	B1/500		G1/500
BVH	(80°-90°)	67.5	1.1			G1/100
UL	(90°-100°)	14.9	0.2		U2/50	
UH	(100°-180°)	8.3	0.1		U1/10	

BUG Rating: B2-U2-G2

Type IV Short



REPORT NUMBER: P436835

CATALOG NUMBER: TT-D4-735-U-MQ-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9
2.5°	1479.5	1478.4	1478.4	1478.4	1478.4	1477.3	1478.4	1476.2	1477.3	1473.9	1473.9
5°	1482.9	1480.7	1481.8	1481.8	1481.8	1480.7	1481.8	1478.4	1479.5	1475.0	1473.9
7.5°	1484.0	1482.9	1482.9	1482.9	1482.9	1480.7	1481.8	1479.5	1478.4	1475.0	1472.8
10°	1484.0	1482.9	1482.9	1482.9	1481.8	1479.5	1480.7	1477.3	1477.3	1472.8	1470.5
12.5°	1484.0	1482.9	1484.0	1481.8	1481.8	1479.5	1479.5	1476.2	1476.2	1470.5	1468.3
15°	1482.9	1481.8	1481.8	1482.9	1481.8	1479.5	1479.5	1476.2	1475.0	1468.3	1466.0
17.5°	1481.8	1480.7	1481.8	1482.9	1484.0	1481.8	1482.9	1477.3	1475.0	1468.3	1464.9
20°	1482.9	1481.8	1482.9	1485.2	1485.2	1485.2	1485.2	1479.5	1475.0	1468.3	1462.7
22.5°	1479.5	1479.5	1479.5	1479.5	1481.8	1478.4	1478.4	1475.0	1469.4	1463.8	1458.2
25°	1471.7	1471.7	1472.8	1473.9	1473.9	1471.7	1470.5	1467.2	1462.7	1455.9	1449.2
27.5°	1462.7	1462.7	1463.8	1463.8	1466.0	1463.8	1462.7	1458.2	1453.7	1445.8	1437.9
30°	1452.5	1452.5	1452.5	1454.8	1455.9	1455.9	1454.8	1449.2	1443.5	1434.5	1424.4
32.5°	1441.3	1441.3	1444.7	1446.9	1448.0	1448.0	1448.0	1441.3	1434.5	1423.3	1408.7
35°	1432.3	1432.3	1436.8	1444.7	1449.2	1446.9	1445.8	1441.3	1431.2	1418.8	1395.2
37.5°	1437.9	1437.9	1448.0	1459.3	1469.4	1467.2	1467.2	1459.3	1445.8	1425.5	1396.3
40°	1451.4	1452.5	1468.3	1482.9	1495.3	1497.5	1497.5	1488.5	1468.3	1442.4	1401.9
42.5°	1454.8	1457.0	1472.8	1494.2	1505.4	1511.0	1511.0	1498.7	1477.3	1446.9	1399.7
45°	1454.8	1455.9	1473.9	1496.4	1514.4	1518.9	1518.9	1505.4	1478.4	1449.2	1391.8
47.5°	1454.8	1453.7	1469.4	1500.9	1518.9	1522.3	1522.3	1507.7	1481.8	1444.7	1380.5
50°	1451.4	1457.0	1480.7	1505.4	1536.9	1541.4	1540.3	1524.5	1488.5	1450.3	1371.5
52.5°	1459.3	1458.2	1489.7	1539.2	1567.3	1577.4	1578.6	1558.3	1521.2	1466.0	1365.9
55°	1491.9	1493.0	1523.4	1580.8	1623.6	1642.7	1640.4	1614.6	1561.7	1497.5	1381.7
57.5°	1503.2	1514.4	1558.3	1607.8	1673.1	1689.9	1689.9	1658.4	1594.3	1522.3	1392.9
60°	1480.7	1485.2	1539.2	1623.6	1683.2	1686.6	1687.7	1665.2	1597.7	1508.8	1370.4
62.5°	1475.0	1484.0	1525.7	1620.2	1658.4	1683.2	1682.1	1651.7	1594.3	1498.7	1362.5
65°	1450.3	1457.0	1530.2	1599.9	1684.3	1709.1	1703.4	1668.6	1579.7	1487.4	1337.8
67.5°	1399.7	1406.4	1473.9	1571.8	1648.3	1671.9	1677.6	1637.1	1544.8	1434.5	1284.9
70°	1315.3	1325.4	1394.0	1489.7	1570.7	1584.2	1581.9	1557.2	1464.9	1346.8	1207.3
72.5°	1197.1	1212.9	1299.5	1390.7	1460.4	1480.7	1471.7	1443.5	1368.2	1241.0	1101.5
75°	1072.2	1086.9	1155.5	1257.9	1331.0	1344.5	1337.8	1304.0	1227.5	1102.6	976.6
77.5°	936.1	948.5	1007.0	1111.6	1165.6	1176.9	1180.3	1135.3	1063.2	950.7	838.2
80°	752.7	758.3	837.1	905.7	953.0	975.5	973.2	939.5	867.5	774.1	661.6
82.5°	555.8	560.3	621.1	679.6	722.3	742.6	731.3	697.6	640.2	560.3	474.8
85°	340.9	333.0	382.5	426.4	452.3	465.8	454.6	435.4	384.8	321.8	262.2
87.5°	122.6	115.9	138.4	145.1	174.4	169.9	180.0	145.1	117.0	83.3	58.5
90°	54.0	54.0	52.9	50.6	46.1	41.6	40.5	33.8	24.8	15.8	5.6
92.5°	49.5	49.5	48.4	46.1	41.6	37.1	37.1	30.4	22.5	14.6	5.6
95°	41.6	41.6	40.5	38.3	34.9	31.5	31.5	24.8	19.1	12.4	4.5
97.5°	32.6	32.6	31.5	30.4	27.0	24.8	24.8	20.3	14.6	9.0	3.4
100°	24.8	24.8	23.6	22.5	21.4	19.1	18.0	14.6	11.3	6.8	2.3
102.5°	18.0	18.0	18.0	16.9	14.6	13.5	13.5	11.3	7.9	5.6	2.3
105°	12.4	12.4	12.4	11.3	10.1	9.0	9.0	7.9	5.6	3.4	1.1
107.5°	7.9	7.9	7.9	7.9	6.8	5.6	5.6	4.5	3.4	2.3	1.1
110°	4.5	3.4	4.5	4.5	4.5	3.4	3.4	2.3	2.3	1.1	1.1



REPORT NUMBER: P436835

CATALOG NUMBER: TT-D4-735-U-MQ-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1
115°	1.1	1.1	1.1	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1
117.5°	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
120°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
122.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
125°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
127.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
130°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
132.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
135°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
137.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
140°	0.0	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
142.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
147.5°	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
150°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	1.1	1.1	1.1	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
167.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
170°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
175°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

REPORT NUMBER: P436835

CATALOG NUMBER: TT-D4-735-U-MQ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9
2.5°	1473.9	1472.8	1471.7	1472.8	1471.7	1471.7	1470.5	1470.5	1469.4	1469.4	1468.3
5°	1473.9	1472.8	1471.7	1472.8	1470.5	1471.7	1471.7	1470.5	1469.4	1468.3	1467.2
7.5°	1472.8	1472.8	1470.5	1471.7	1469.4	1469.4	1468.3	1468.3	1467.2	1467.2	1466.0
10°	1470.5	1469.4	1469.4	1469.4	1467.2	1467.2	1466.0	1464.9	1464.9	1463.8	1462.7
12.5°	1468.3	1467.2	1466.0	1466.0	1464.9	1463.8	1462.7	1462.7	1461.5	1460.4	1459.3
15°	1464.9	1463.8	1463.8	1463.8	1462.7	1462.7	1461.5	1460.4	1458.2	1457.0	1455.9
17.5°	1463.8	1462.7	1463.8	1463.8	1462.7	1463.8	1461.5	1459.3	1457.0	1455.9	1454.8
20°	1462.7	1462.7	1462.7	1461.5	1460.4	1459.3	1458.2	1457.0	1455.9	1454.8	1453.7
22.5°	1457.0	1455.9	1453.7	1446.9	1439.0	1433.4	1432.3	1434.5	1434.5	1434.5	1431.2
25°	1446.9	1443.5	1434.5	1422.2	1408.7	1399.7	1394.0	1394.0	1392.9	1390.7	1389.5
27.5°	1434.5	1427.8	1412.0	1396.3	1377.2	1365.9	1352.4	1344.5	1341.2	1340.0	1337.8
30°	1417.7	1407.5	1387.3	1367.0	1343.4	1327.7	1306.3	1292.8	1284.9	1281.5	1279.3
32.5°	1397.4	1387.3	1363.7	1338.9	1310.8	1288.3	1261.3	1239.9	1225.3	1218.5	1215.1
35°	1383.9	1369.3	1342.3	1313.0	1284.9	1252.3	1219.6	1190.4	1167.9	1160.0	1155.5
37.5°	1378.3	1364.8	1335.5	1306.3	1274.8	1235.4	1197.1	1155.5	1125.1	1111.6	1107.1
40°	1381.7	1364.8	1332.2	1300.6	1263.5	1219.6	1169.0	1117.3	1077.9	1058.7	1054.2
42.5°	1373.8	1354.7	1316.4	1282.6	1236.5	1187.0	1125.1	1065.5	1012.6	996.9	990.1
45°	1360.3	1336.7	1295.0	1252.3	1203.9	1143.1	1079.0	1002.5	939.5	920.4	914.7
47.5°	1346.8	1314.1	1264.6	1225.3	1166.8	1095.9	1020.5	935.0	856.2	837.1	833.7
50°	1326.5	1296.1	1243.3	1197.1	1137.5	1055.4	969.9	863.0	774.1	741.5	732.5
52.5°	1317.5	1278.1	1227.5	1191.5	1119.5	1026.1	918.1	803.3	675.1	634.6	625.6
55°	1326.5	1277.0	1223.0	1188.1	1104.9	989.0	856.2	710.0	561.4	518.7	506.3
57.5°	1310.8	1268.0	1214.0	1174.6	1066.6	912.5	766.2	578.3	424.2	369.0	364.5
60°	1290.5	1229.8	1179.1	1143.1	986.7	768.5	596.3	411.8	255.4	208.1	199.1
62.5°	1282.6	1219.6	1161.1	1117.3	879.8	564.8	363.4	208.1	105.8	74.3	67.5
65°	1257.9	1201.6	1160.0	1098.1	768.5	348.8	156.4	61.9	4.5	3.4	3.4
67.5°	1210.6	1153.3	1125.1	1089.1	757.2	333.0	141.8	56.3	2.3	0.0	0.0
70°	1129.6	1084.6	1065.5	1046.4	724.6	308.3	129.4	50.6	1.1	0.0	0.0
72.5°	1022.7	992.4	989.0	986.7	677.3	284.7	115.9	45.0	1.1	0.0	0.0
75°	915.9	878.7	884.3	897.9	618.8	252.0	100.1	39.4	1.1	0.0	0.0
77.5°	780.8	753.8	767.3	789.8	542.3	213.8	82.1	31.5	1.1	0.0	0.0
80°	614.3	596.3	626.7	646.9	443.3	169.9	61.9	22.5	0.0	0.0	0.0
82.5°	436.5	426.4	454.6	480.4	329.7	120.4	42.8	14.6	0.0	0.0	0.0
85°	235.2	229.5	256.5	284.7	198.0	68.6	21.4	6.8	0.0	0.0	0.0
87.5°	58.5	54.0	55.1	66.4	48.4	14.6	3.4	1.1	0.0	0.0	0.0
90°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
102.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
110°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P436835

CATALOG NUMBER: TT-D4-735-U-MQ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
115°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
117.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
122.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
125°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
127.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
130°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
135°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
147.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
165°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
167.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
170°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
172.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
175°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
177.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-4

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-735-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-735-U-WQ

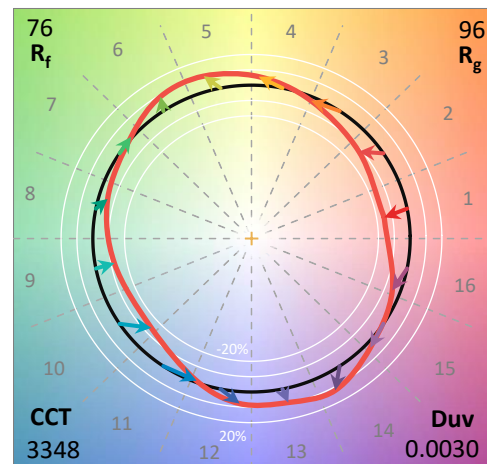
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-4
 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-30-735-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 3348
 CIE u' : 0.2384
 CIE v' : 0.5184
 Duv: 0.0030
 CIE x: 0.4177
 CIE y: 0.4036
 CIE z: 0.1787
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 580
 Purity: 46.5223
 R_f: 75.8
 R_g: 95.8

CRI (Ra): 73.4
 R1: 70.8
 R2: 79.9
 R3: 87.6
 R4: 72.6
 R5: 69.3
 R6: 71.3
 R7: 82.1
 R8: 53.3
 R9: -19.2
 R10: 52.5
 R11: 68.0
 R12: 42.6
 R13: 72.0
 R14: 92.6
 R15: 63.8



Test Conditions

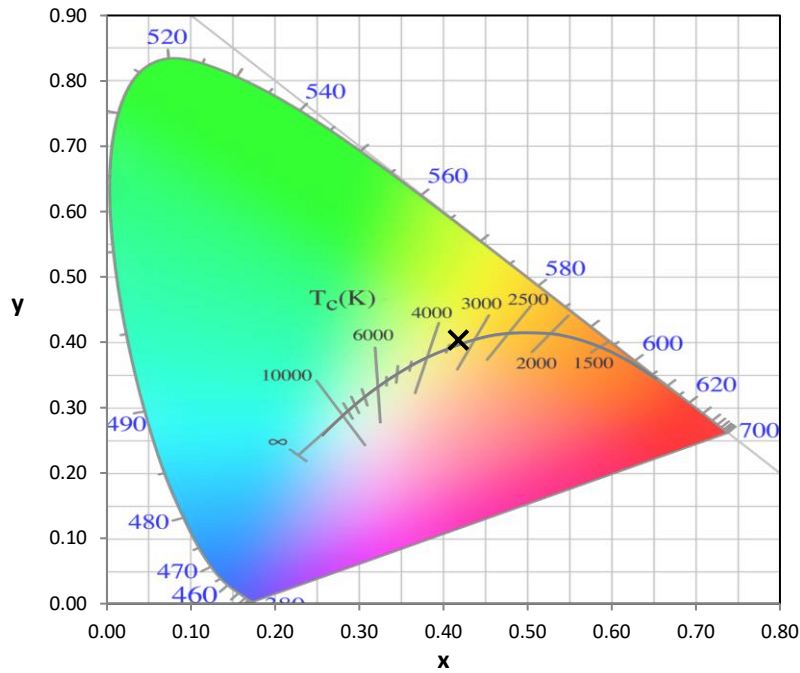
Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-4

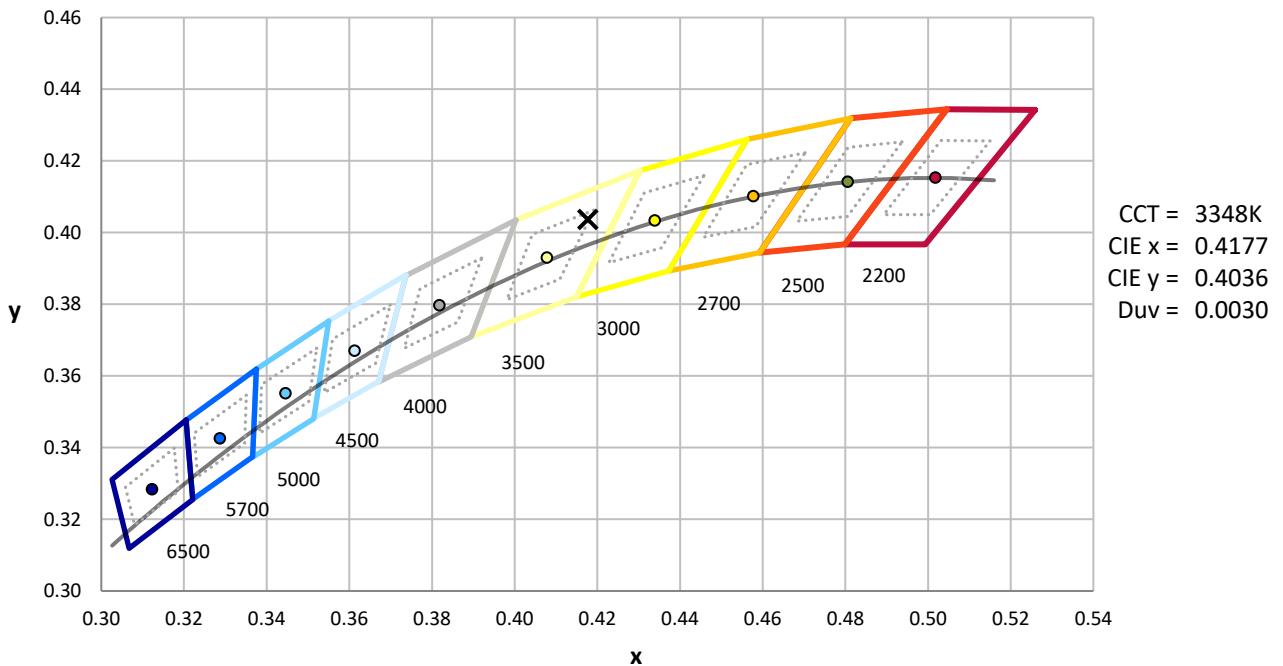
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-4

Photopic Flux vs. Wavelength

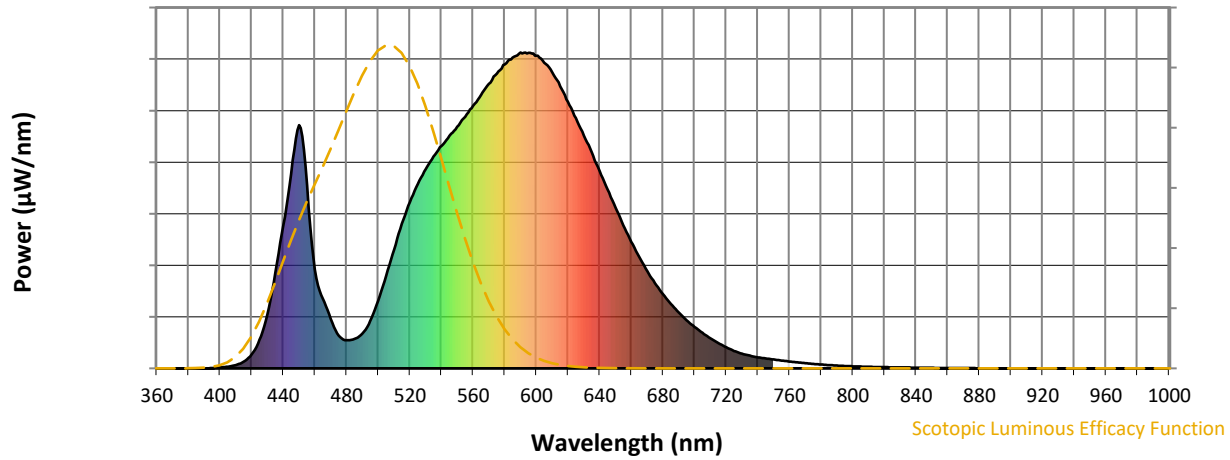


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

Scotopic Flux vs. Wavelength



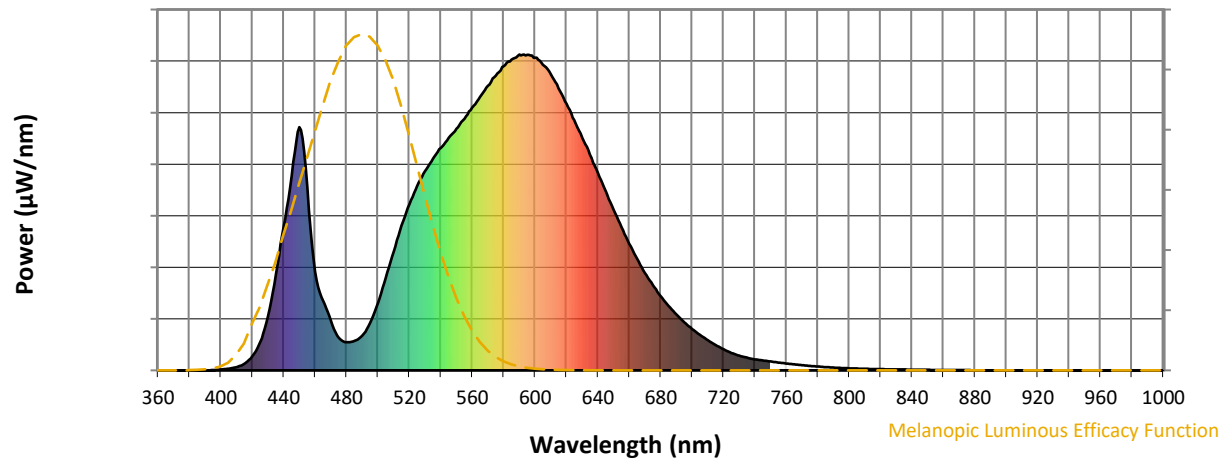
Scotopic Lumens: NR

S/P: 1.31

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	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.4

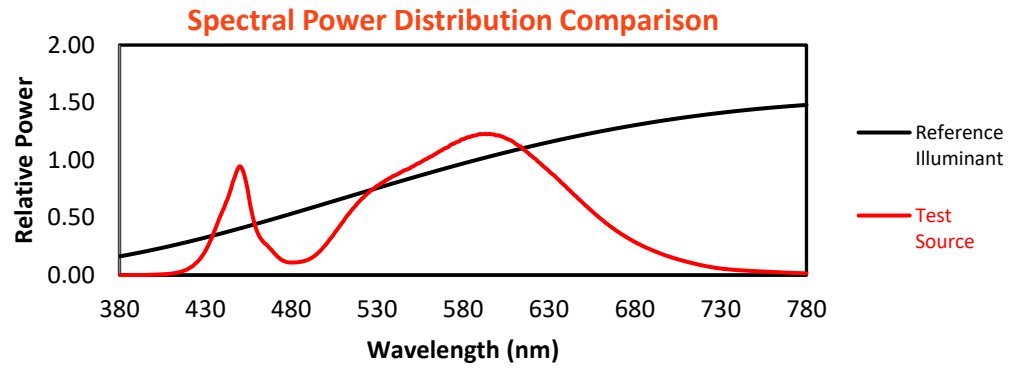
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

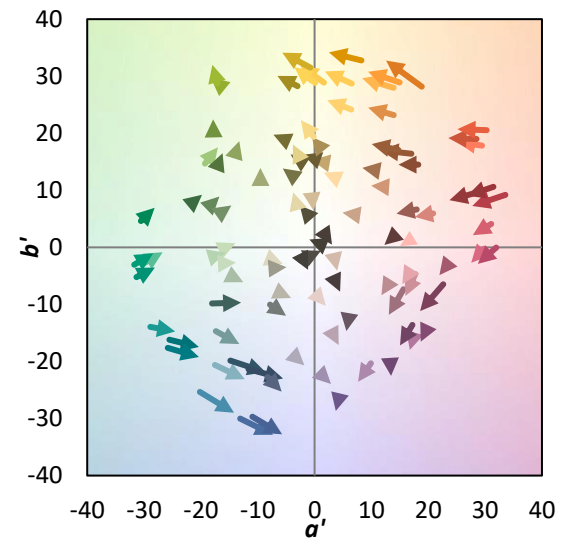
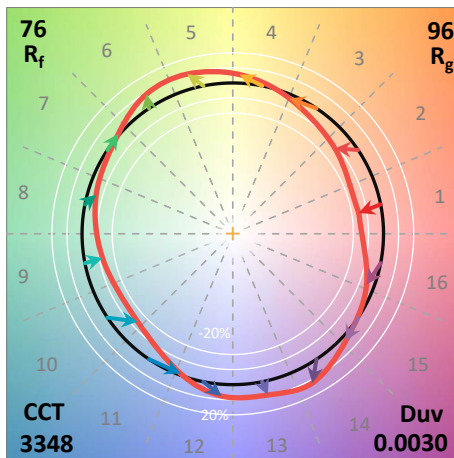
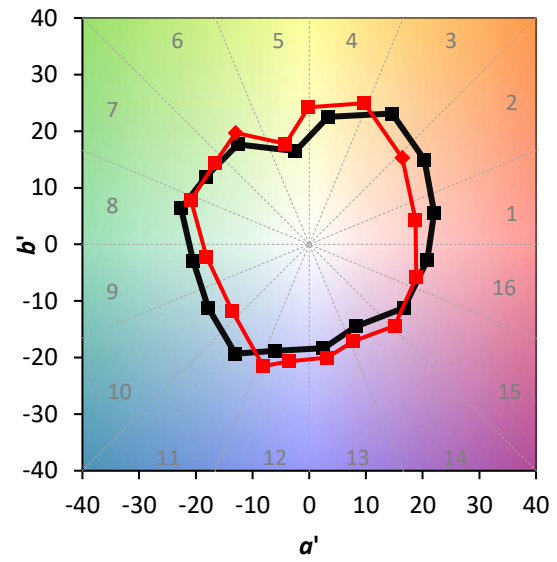
TM-30-18

Summary

$R_f = 75.8$
 $R_g = 95.8$
 $CIE R_a = 73.4$
 $R_g = -19.2$

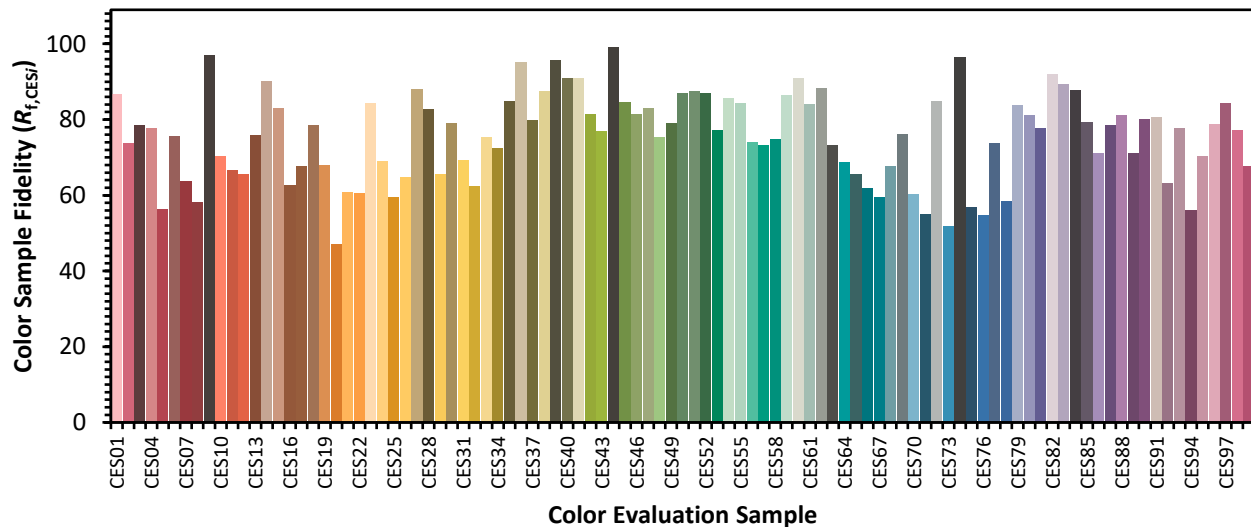


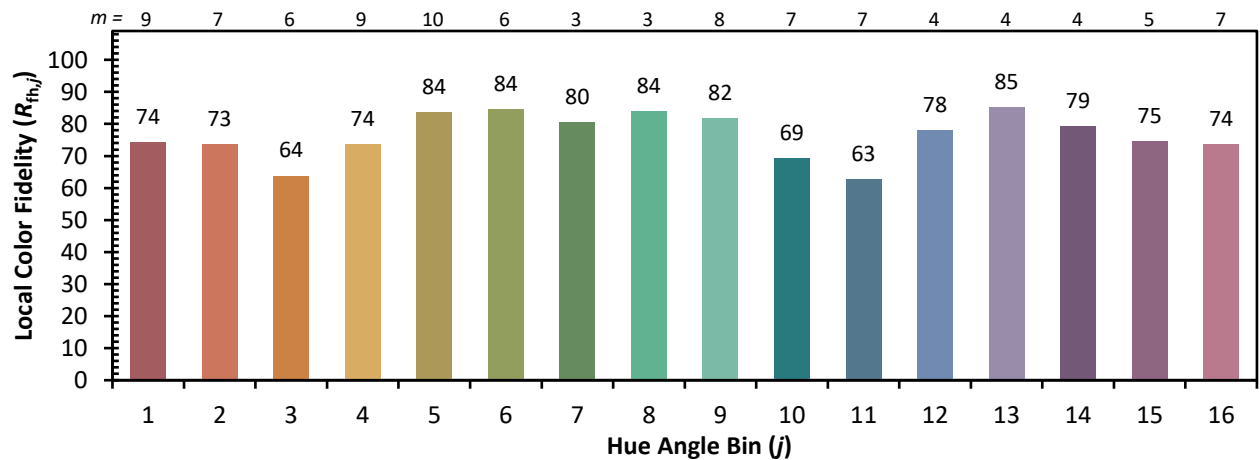
Color Vector Graphics



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

CES01 = 86	CES26 = 65	CES51 = 88	CES76 = 55
CES02 = 62	CES27 = 88	CES52 = 87	CES77 = 74
CES03 = 31	CES28 = 83	CES53 = 77	CES78 = 58
CES04 = 70	CES29 = 66	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 79	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 69	CES56 = 74	CES81 = 78
CES07 = 41	CES32 = 62	CES57 = 73	CES82 = 92
CES08 = 40	CES33 = 75	CES58 = 75	CES83 = 89
CES09 = 29	CES34 = 73	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 85	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 95	CES61 = 84	CES86 = 71
CES12 = 64	CES37 = 80	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 88	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 71
CES15 = 71	CES40 = 91	CES65 = 66	CES90 = 80
CES16 = 47	CES41 = 91	CES66 = 62	CES91 = 81
CES17 = 50	CES42 = 81	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 77	CES68 = 68	CES93 = 78
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 85	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 82	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 83	CES72 = 85	CES97 = 84
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 77
CES24 = 91	CES49 = 79	CES74 = 96	CES99 = 68
CES25 = 72	CES50 = 87	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)