

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: P436913

Luminaire Tested: **TT-D6-830-U-MQ-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436913
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-D6-830-U-MQ-HSS
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9933.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G3

Input Watts (W): 105.2
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

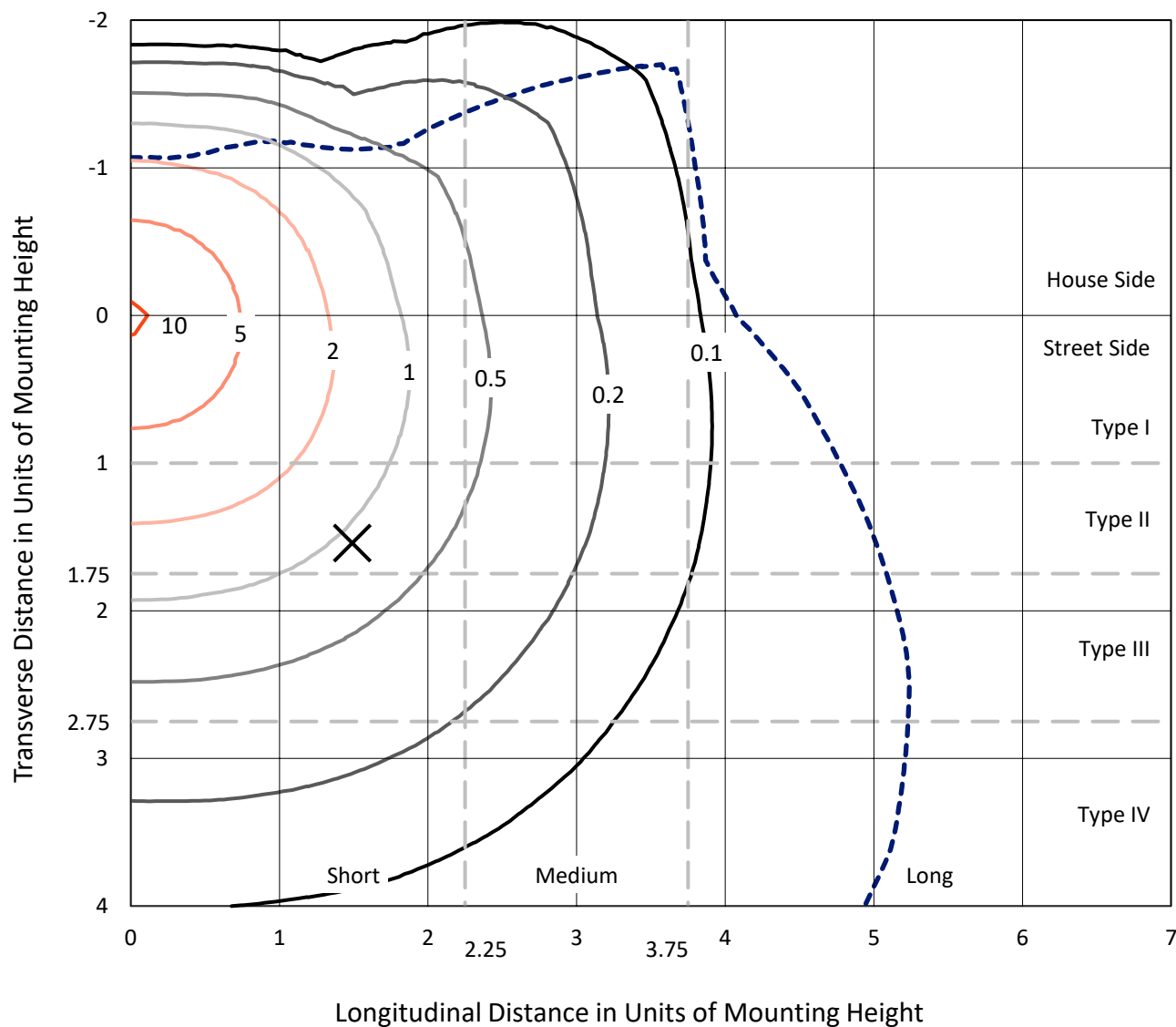
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

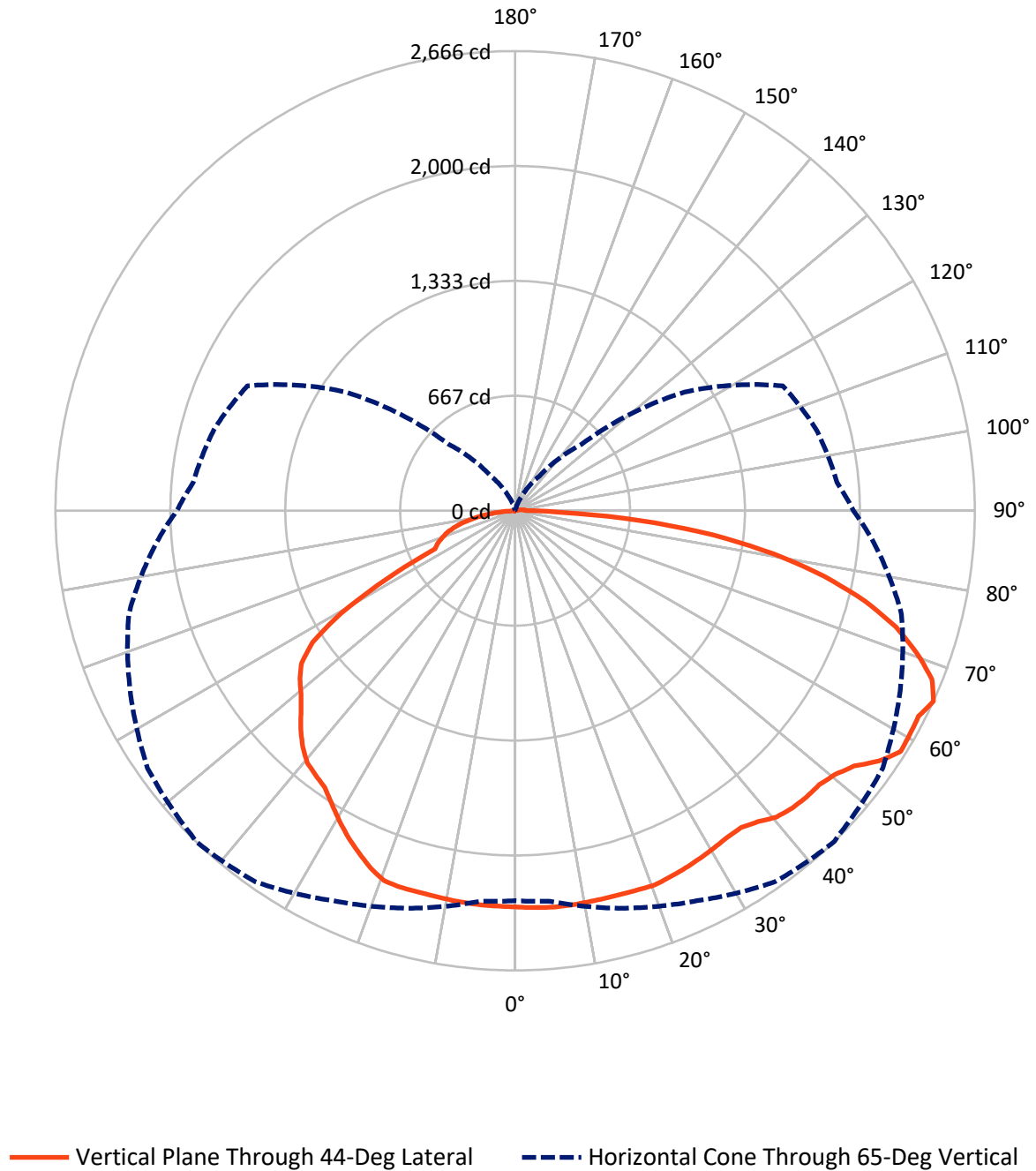


Based on 15 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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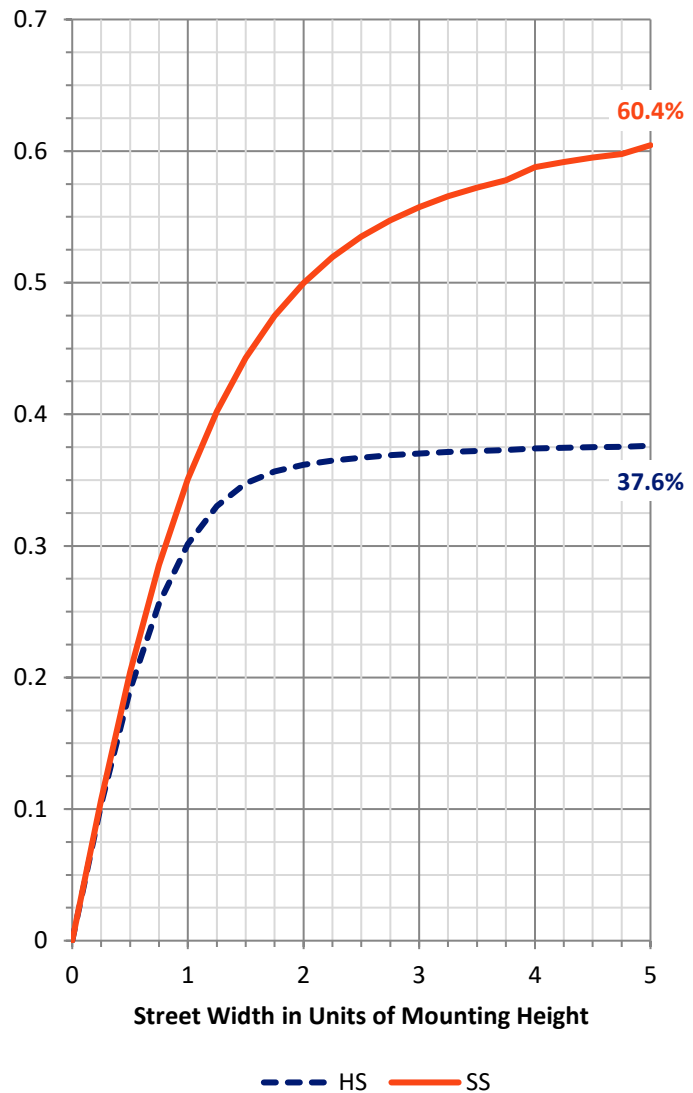
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3761.1	2.7	3763.8
	% Fixture	37.9	0.0	37.9
Street Side	Lumens	6135.6	33.8	6169.4
	% Fixture	61.8	0.3	62.1
Total	Lumens	9896.7	36.5	9933.1
	% Fixture	99.6	0.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	2.2
10°-20°	650.0	6.5
20°-30°	1034.4	10.4
30°-40°	1325.3	13.3
40°-50°	1570.0	15.8
50°-60°	1719.5	17.3
60°-70°	1634.5	16.5
70°-80°	1301.3	13.1
80°-90°	442.1	4.5
90°-100°	23.3	0.2
100°-110°	7.7	0.1
110°-120°	1.7	0.0
120°-130°	1.1	0.0
130°-140°	0.8	0.0
140°-150°	0.8	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-90°	9896.7	99.6
0°-180°	9933.1	100.0



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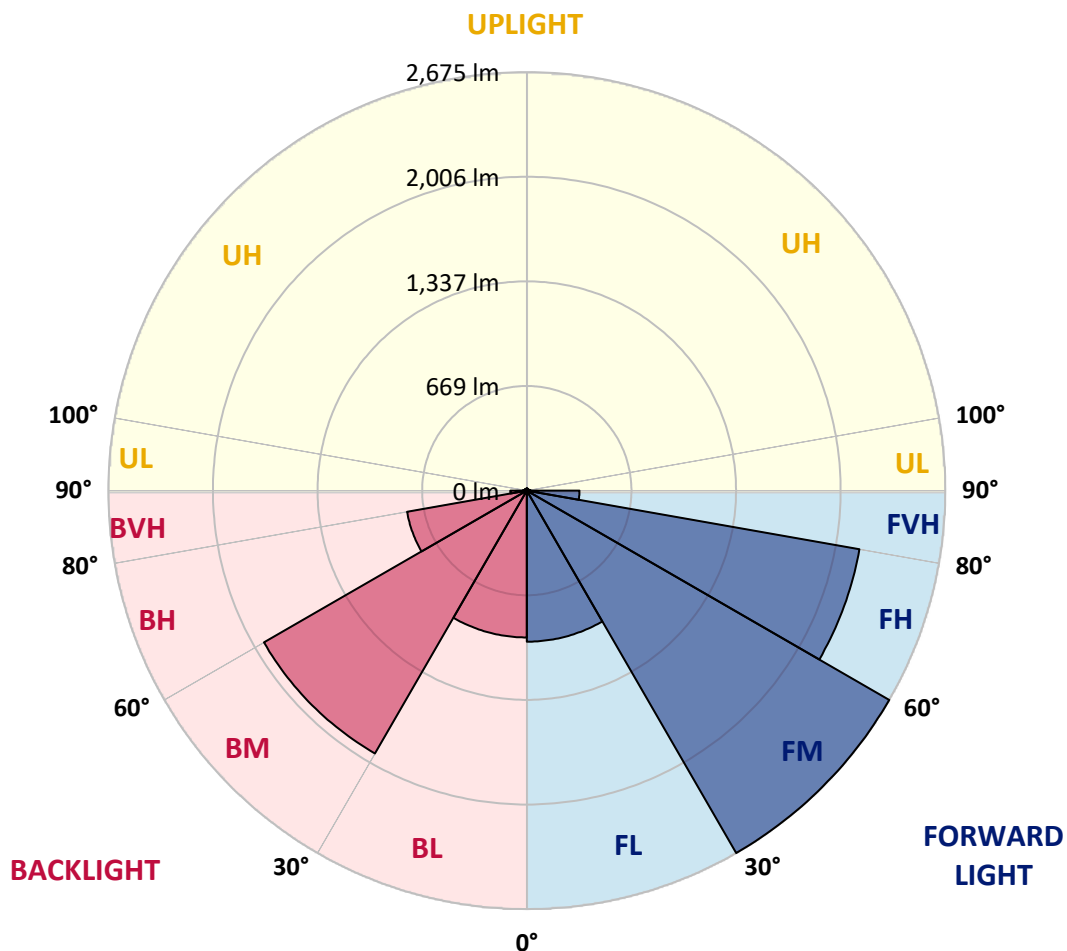
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	965.5	9.7			
FM	(30°-60°)	2674.8	26.9			
FH	(60°-80°)	2158.6	21.7			G2/5000
FVH	(80°-90°)	336.7	3.4			G3/500
BL	(0°-30°)	938.5	9.4	B2/1000		
BM	(30°-60°)	1940.0	19.5	B2/2500		
BH	(60°-80°)	777.2	7.8	B2/1000		G2/1000
BVH	(80°-90°)	105.4	1.1			G2/225
UL	(90°-100°)	23.3	0.2		U2/50	
UH	(100°-180°)	13.2	0.1		U2/50	

BUG Rating: B2-U2-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4
2.5°	2308.2	2306.4	2306.4	2306.4	2306.4	2304.7	2306.4	2302.9	2304.7	2299.4	2299.4
5°	2313.5	2310.0	2311.7	2311.7	2311.7	2310.0	2311.7	2306.4	2308.2	2301.2	2299.4
7.5°	2315.2	2313.5	2313.5	2313.5	2313.5	2310.0	2311.7	2308.2	2306.4	2301.2	2297.7
10°	2315.2	2313.5	2313.5	2313.5	2311.7	2308.2	2310.0	2304.7	2304.7	2297.7	2294.2
12.5°	2315.2	2313.5	2315.2	2311.7	2311.7	2308.2	2308.2	2302.9	2302.9	2294.2	2290.6
15°	2313.5	2311.7	2311.7	2313.5	2311.7	2308.2	2308.2	2302.9	2301.2	2290.6	2287.1
17.5°	2311.7	2310.0	2311.7	2313.5	2315.2	2311.7	2313.5	2304.7	2301.2	2290.6	2285.4
20°	2313.5	2311.7	2313.5	2317.0	2317.0	2317.0	2317.0	2308.2	2301.2	2290.6	2281.9
22.5°	2308.2	2308.2	2308.2	2308.2	2311.7	2306.4	2306.4	2301.2	2292.4	2283.6	2274.8
25°	2295.9	2295.9	2297.7	2299.4	2299.4	2295.9	2294.2	2288.9	2281.9	2271.3	2260.8
27.5°	2281.9	2281.9	2283.6	2283.6	2287.1	2283.6	2281.9	2274.8	2267.8	2255.5	2243.3
30°	2266.1	2266.1	2266.1	2269.6	2271.3	2271.3	2269.6	2260.8	2252.0	2238.0	2222.2
32.5°	2248.5	2248.5	2253.8	2257.3	2259.0	2259.0	2259.0	2248.5	2238.0	2220.4	2197.6
35°	2234.5	2234.5	2241.5	2253.8	2260.8	2257.3	2255.5	2248.5	2232.7	2213.4	2176.6
37.5°	2243.3	2243.3	2259.0	2276.6	2292.4	2288.9	2288.9	2276.6	2255.5	2223.9	2178.3
40°	2264.3	2266.1	2290.6	2313.5	2332.8	2336.3	2336.3	2322.2	2290.6	2250.3	2187.1
42.5°	2269.6	2273.1	2297.7	2331.0	2348.6	2357.3	2357.3	2338.0	2304.7	2257.3	2183.6
45°	2269.6	2271.3	2299.4	2334.5	2362.6	2369.6	2369.6	2348.6	2306.4	2260.8	2171.3
47.5°	2269.6	2267.8	2292.4	2341.5	2369.6	2374.9	2374.9	2352.1	2311.7	2253.8	2153.7
50°	2264.3	2273.1	2310.0	2348.6	2397.7	2404.7	2403.0	2378.4	2322.2	2262.6	2139.7
52.5°	2276.6	2274.8	2324.0	2401.2	2445.1	2460.9	2462.7	2431.1	2373.1	2287.1	2130.9
55°	2327.5	2329.3	2376.7	2466.2	2532.9	2562.7	2559.2	2518.8	2436.3	2336.3	2155.5
57.5°	2345.1	2362.6	2431.1	2508.3	2610.1	2636.4	2636.4	2587.3	2487.2	2374.9	2173.0
60°	2310.0	2317.0	2401.2	2532.9	2625.9	2631.2	2632.9	2597.8	2492.5	2353.8	2137.9
62.5°	2301.2	2315.2	2380.2	2527.6	2587.3	2625.9	2624.1	2576.8	2487.2	2338.0	2125.6
65°	2262.6	2273.1	2387.2	2496.0	2627.7	2666.3	2657.5	2603.1	2464.4	2320.5	2087.0
67.5°	2183.6	2194.1	2299.4	2452.1	2571.5	2608.4	2617.1	2553.9	2410.0	2238.0	2004.5
70°	2051.9	2067.7	2174.8	2324.0	2450.4	2471.4	2467.9	2429.3	2285.4	2101.1	1883.4
72.5°	1867.6	1892.2	2027.4	2169.5	2278.4	2310.0	2295.9	2252.0	2134.4	1936.1	1718.4
75°	1672.8	1695.6	1802.7	1962.4	2076.5	2097.6	2087.0	2034.4	1915.0	1720.2	1523.6
77.5°	1460.4	1479.7	1571.0	1734.2	1818.5	1836.0	1841.3	1771.1	1658.7	1483.2	1307.7
80°	1174.3	1183.1	1305.9	1413.0	1486.7	1521.8	1518.3	1465.7	1353.3	1207.6	1032.1
82.5°	867.1	874.1	968.9	1060.2	1126.9	1158.5	1140.9	1088.3	998.8	874.1	740.7
85°	531.9	519.6	596.8	665.3	705.6	726.7	709.1	679.3	600.3	502.0	409.0
87.5°	191.3	180.8	215.9	226.4	272.1	265.0	280.8	226.4	182.5	129.9	91.3
90°	84.3	84.3	82.5	79.0	72.0	64.9	63.2	52.7	38.6	24.6	8.8
92.5°	77.2	77.2	75.5	72.0	64.9	57.9	57.9	47.4	35.1	22.8	8.8
95°	64.9	64.9	63.2	59.7	54.4	49.1	49.1	38.6	29.8	19.3	7.0
97.5°	50.9	50.9	49.1	47.4	42.1	38.6	38.6	31.6	22.8	14.0	5.3
100°	38.6	38.6	36.9	35.1	33.4	29.8	28.1	22.8	17.6	10.5	3.5
102.5°	28.1	28.1	28.1	26.3	22.8	21.1	21.1	17.6	12.3	8.8	3.5
105°	19.3	19.3	19.3	17.6	15.8	14.0	14.0	12.3	8.8	5.3	1.8
107.5°	12.3	12.3	12.3	12.3	10.5	8.8	8.8	7.0	5.3	3.5	1.8
110°	7.0	5.3	7.0	7.0	7.0	5.3	5.3	3.5	3.5	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1.8	1.8	1.8	1.8
115°	1.8	1.8	1.8	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8
117.5°	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
120°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
122.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
125°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
127.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
130°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
132.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
135°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
137.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
140°	0.0	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
142.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
145°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
147.5°	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
150°	1.8	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
152.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
155°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
157.5°	1.8	1.8	1.8	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
167.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
170°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
172.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
175°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
177.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4
2.5°	2299.4	2297.7	2295.9	2297.7	2295.9	2295.9	2294.2	2294.2	2292.4	2292.4	2290.6
5°	2299.4	2297.7	2295.9	2297.7	2294.2	2295.9	2295.9	2294.2	2292.4	2290.6	2288.9
7.5°	2297.7	2297.7	2294.2	2295.9	2292.4	2292.4	2290.6	2290.6	2288.9	2288.9	2287.1
10°	2294.2	2292.4	2292.4	2292.4	2288.9	2288.9	2287.1	2285.4	2285.4	2283.6	2281.9
12.5°	2290.6	2288.9	2287.1	2287.1	2285.4	2283.6	2281.9	2281.9	2280.1	2278.4	2276.6
15°	2285.4	2283.6	2283.6	2283.6	2281.9	2281.9	2280.1	2278.4	2274.8	2273.1	2271.3
17.5°	2283.6	2281.9	2283.6	2283.6	2281.9	2283.6	2280.1	2276.6	2273.1	2271.3	2269.6
20°	2281.9	2281.9	2281.9	2280.1	2278.4	2276.6	2274.8	2273.1	2271.3	2269.6	2267.8
22.5°	2273.1	2271.3	2267.8	2257.3	2245.0	2236.2	2234.5	2238.0	2238.0	2238.0	2232.7
25°	2257.3	2252.0	2238.0	2218.7	2197.6	2183.6	2174.8	2174.8	2173.0	2169.5	2167.8
27.5°	2238.0	2227.5	2202.9	2178.3	2148.5	2130.9	2109.9	2097.6	2092.3	2090.5	2087.0
30°	2211.7	2195.9	2164.3	2132.7	2095.8	2071.2	2037.9	2016.8	2004.5	1999.3	1995.8
32.5°	2180.1	2164.3	2127.4	2088.8	2044.9	2009.8	1967.7	1934.3	1911.5	1901.0	1895.7
35°	2159.0	2136.2	2094.1	2048.4	2004.5	1953.6	1902.7	1857.1	1822.0	1809.7	1802.7
37.5°	2150.2	2129.2	2083.5	2037.9	1988.7	1927.3	1867.6	1802.7	1755.3	1734.2	1727.2
40°	2155.5	2129.2	2078.3	2029.1	1971.2	1902.7	1823.7	1743.0	1681.6	1651.7	1644.7
42.5°	2143.2	2113.4	2053.7	2001.0	1929.1	1851.8	1755.3	1662.3	1579.8	1555.2	1544.6
45°	2122.1	2085.3	2020.3	1953.6	1878.2	1783.4	1683.3	1564.0	1465.7	1435.8	1427.0
47.5°	2101.1	2050.2	1972.9	1911.5	1820.2	1709.6	1592.0	1458.6	1335.8	1305.9	1300.7
50°	2069.5	2022.1	1939.6	1867.6	1774.6	1646.5	1513.1	1346.3	1207.6	1156.7	1142.7
52.5°	2055.4	1994.0	1915.0	1858.8	1746.5	1600.8	1432.3	1253.3	1053.2	990.0	975.9
55°	2069.5	1992.2	1908.0	1853.6	1723.7	1542.9	1335.8	1107.6	875.9	809.2	789.9
57.5°	2044.9	1978.2	1894.0	1832.5	1664.0	1423.5	1195.3	902.2	661.7	575.7	568.7
60°	2013.3	1918.5	1839.5	1783.4	1539.4	1198.9	930.3	642.4	398.4	324.7	310.7
62.5°	2001.0	1902.7	1811.5	1743.0	1372.6	881.2	567.0	324.7	165.0	115.8	105.3
65°	1962.4	1874.6	1809.7	1713.2	1198.9	544.1	244.0	96.5	7.0	5.3	5.3
67.5°	1888.7	1799.2	1755.3	1699.1	1181.3	519.6	221.2	87.8	3.5	0.0	0.0
70°	1762.3	1692.1	1662.3	1632.4	1130.4	480.9	201.9	79.0	1.8	0.0	0.0
72.5°	1595.6	1548.2	1542.9	1539.4	1056.7	444.1	180.8	70.2	1.8	0.0	0.0
75°	1428.8	1370.9	1379.7	1400.7	965.4	393.2	156.2	61.4	1.8	0.0	0.0
77.5°	1218.2	1176.0	1197.1	1232.2	846.0	333.5	128.1	49.1	1.8	0.0	0.0
80°	958.4	930.3	977.7	1009.3	691.6	265.0	96.5	35.1	0.0	0.0	0.0
82.5°	681.0	665.3	709.1	749.5	514.3	187.8	66.7	22.8	0.0	0.0	0.0
85°	366.9	358.1	400.2	444.1	308.9	107.1	33.4	10.5	0.0	0.0	0.0
87.5°	91.3	84.3	86.0	103.6	75.5	22.8	5.3	1.8	0.0	0.0	0.0
90°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
102.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
110°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P436913

CATALOG NUMBER: TT-D6-830-U-MQ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
115°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
117.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
122.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
125°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
127.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
130°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
135°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
147.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
165°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
167.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
170°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
172.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
175°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
177.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-7

Test Date: 09/27/2024

Luminaire Tested: MEM2-HTN-VA-30-830-U-WQ

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-7
 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-30-830-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 2984
 CIE u' : 0.2500
 CIE v' : 0.5264
 Duv: 0.0033
 CIE x: 0.4431
 CIE y: 0.4147
 CIE z: 0.1422
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 581
 Purity: 57.4798
 R_f: 85.8
 R_g: 94.1

CRI (Ra): 81.8
 R1: 79.4
 R2: 89.9
 R3: 96.6
 R4: 80.6
 R5: 80.1
 R6: 88.9
 R7: 82.6
 R8: 56.0
 R9: -1.1
 R10: 78.4
 R11: 80.8
 R12: 72.8
 R13: 81.7
 R14: 98.5
 R15: 70.2



Test Conditions

Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-7

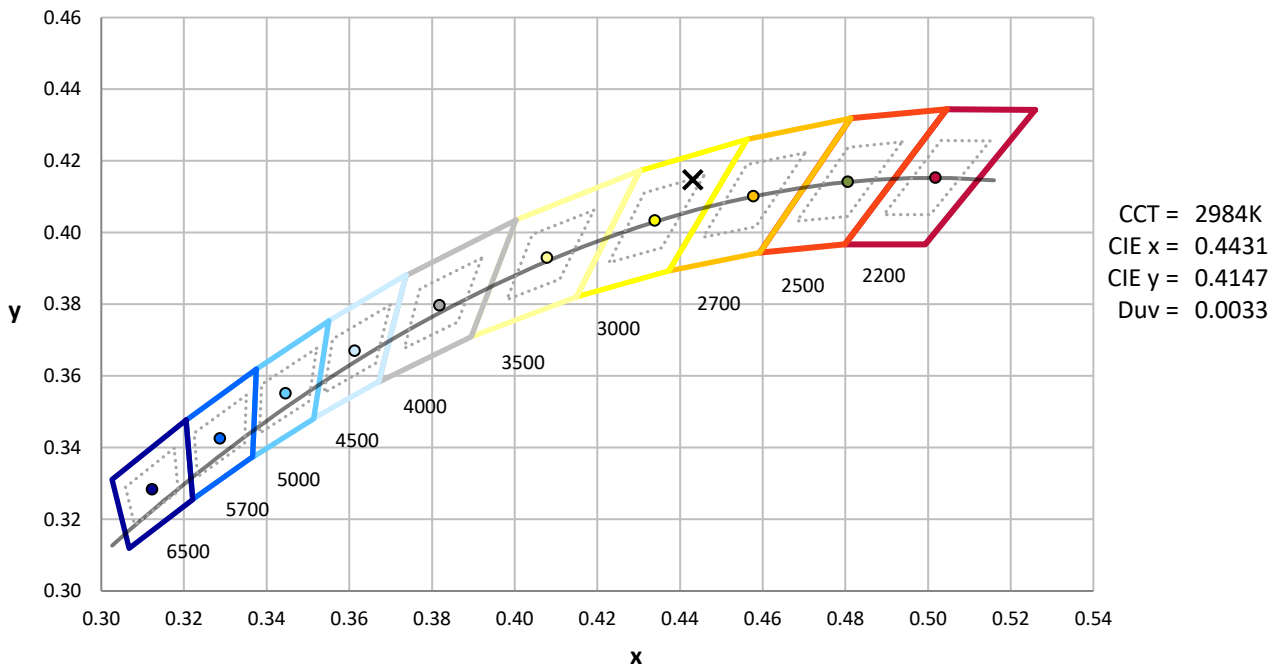
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-7

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

REPORT NUMBER: SP1-2407-176-7

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-7

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.32

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	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.51

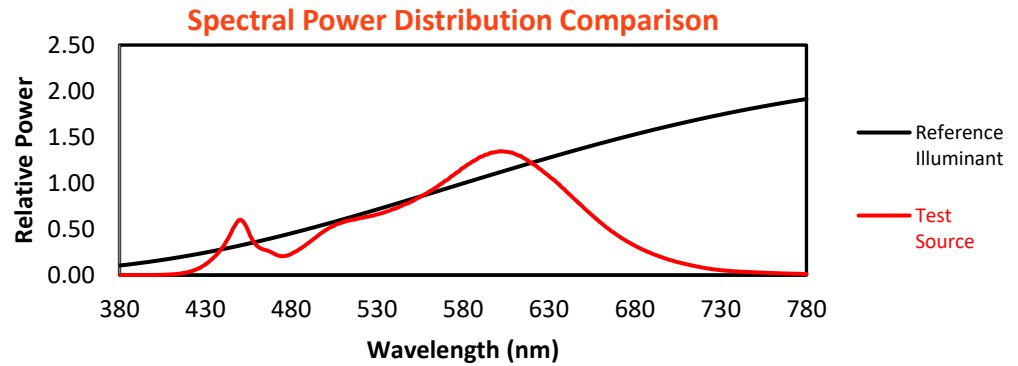
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-7

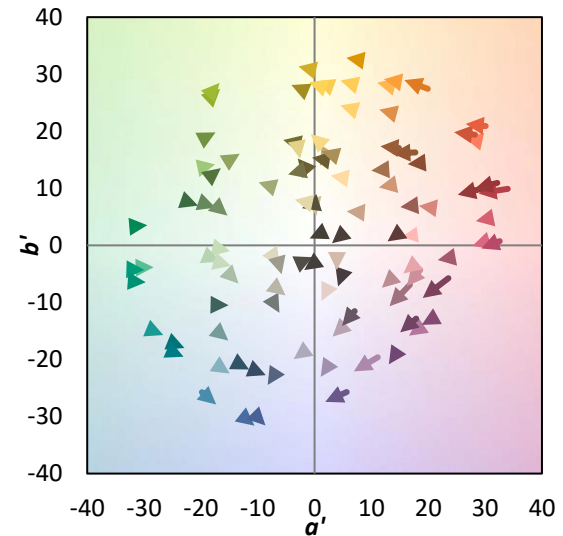
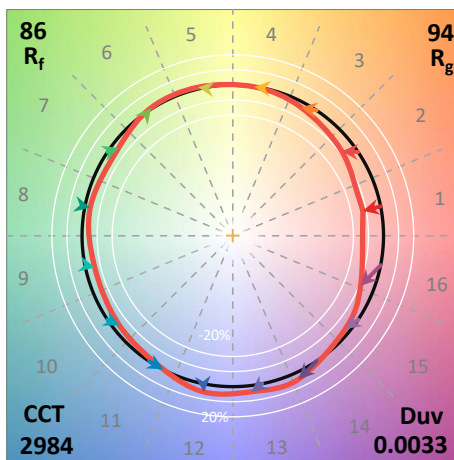
TM-30-18

Summary

$R_f = 85.8$
 $R_g = 94.1$
 $CIE R_a = 81.8$
 $R_g = -1.1$

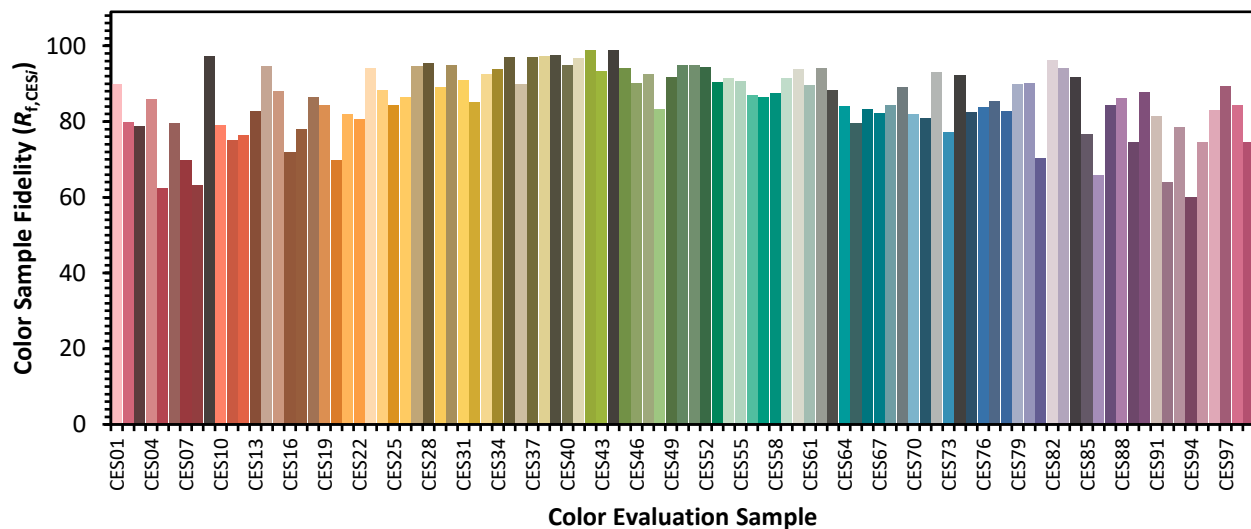


Color Vector Graphics



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

CES01 = 86	CES26 = 86	CES51 = 95	CES76 = 84
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 86
CES03 = 31	CES28 = 95	CES53 = 90	CES78 = 83
CES04 = 70	CES29 = 89	CES54 = 91	CES79 = 90
CES05 = 50	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 91	CES56 = 87	CES81 = 70
CES07 = 42	CES32 = 85	CES57 = 86	CES82 = 96
CES08 = 41	CES33 = 93	CES58 = 87	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 97	CES60 = 94	CES85 = 77
CES11 = 59	CES36 = 90	CES61 = 90	CES86 = 66
CES12 = 65	CES37 = 97	CES62 = 94	CES87 = 84
CES13 = 43	CES38 = 97	CES63 = 88	CES88 = 86
CES14 = 74	CES39 = 98	CES64 = 84	CES89 = 75
CES15 = 72	CES40 = 95	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 83	CES91 = 81
CES17 = 50	CES42 = 99	CES67 = 82	CES92 = 64
CES18 = 56	CES43 = 93	CES68 = 84	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 60
CES20 = 67	CES45 = 94	CES70 = 82	CES95 = 74
CES21 = 87	CES46 = 90	CES71 = 81	CES96 = 83
CES22 = 79	CES47 = 93	CES72 = 93	CES97 = 89
CES23 = 92	CES48 = 83	CES73 = 77	CES98 = 84
CES24 = 91	CES49 = 92	CES74 = 92	CES99 = 75
CES25 = 72	CES50 = 95	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)