

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: P436897

Luminaire Tested: **TT-D6-735-U-MQ-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436897
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-D6-735-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: 10544.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G3

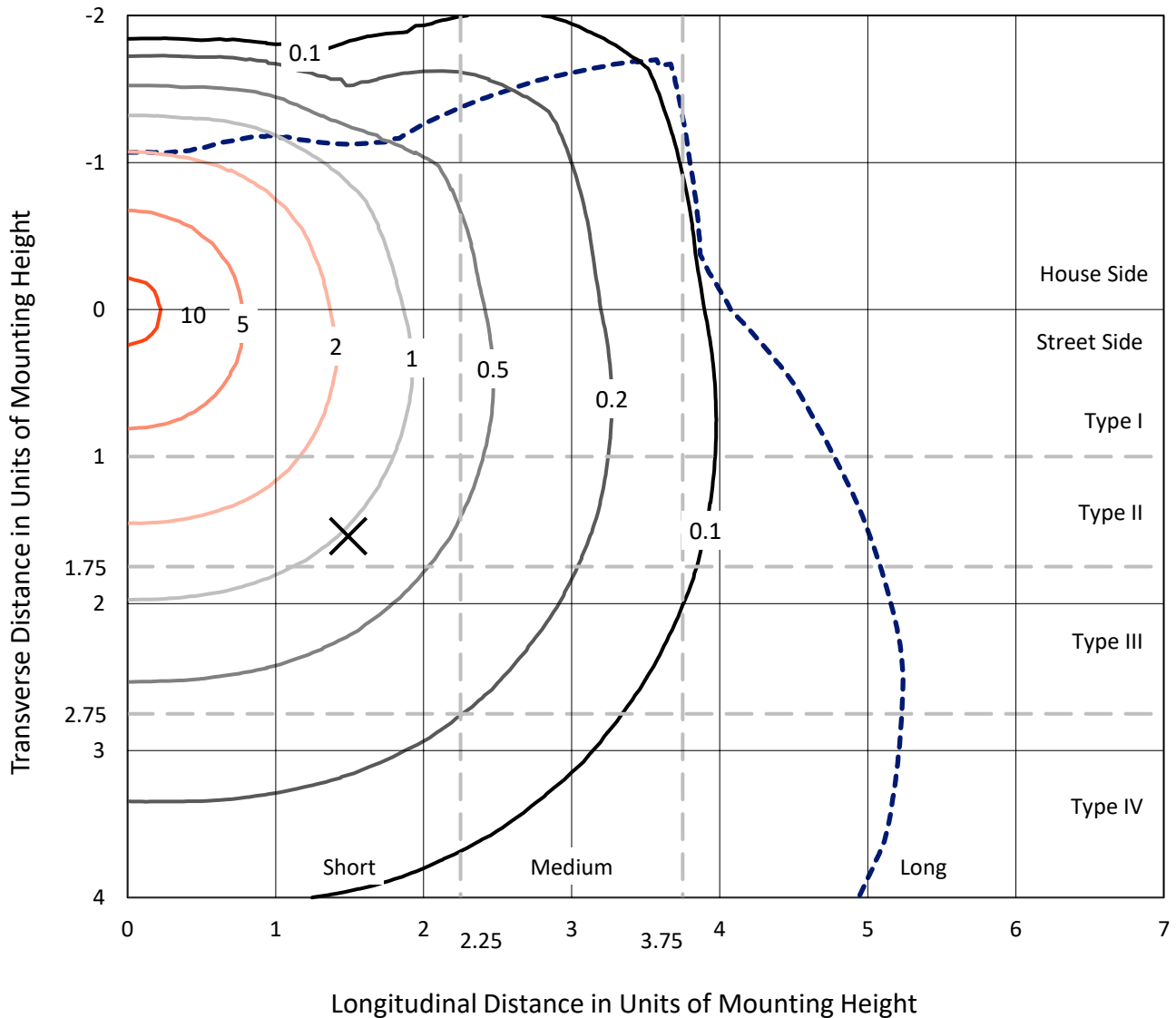
Input Watts (W): 105.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

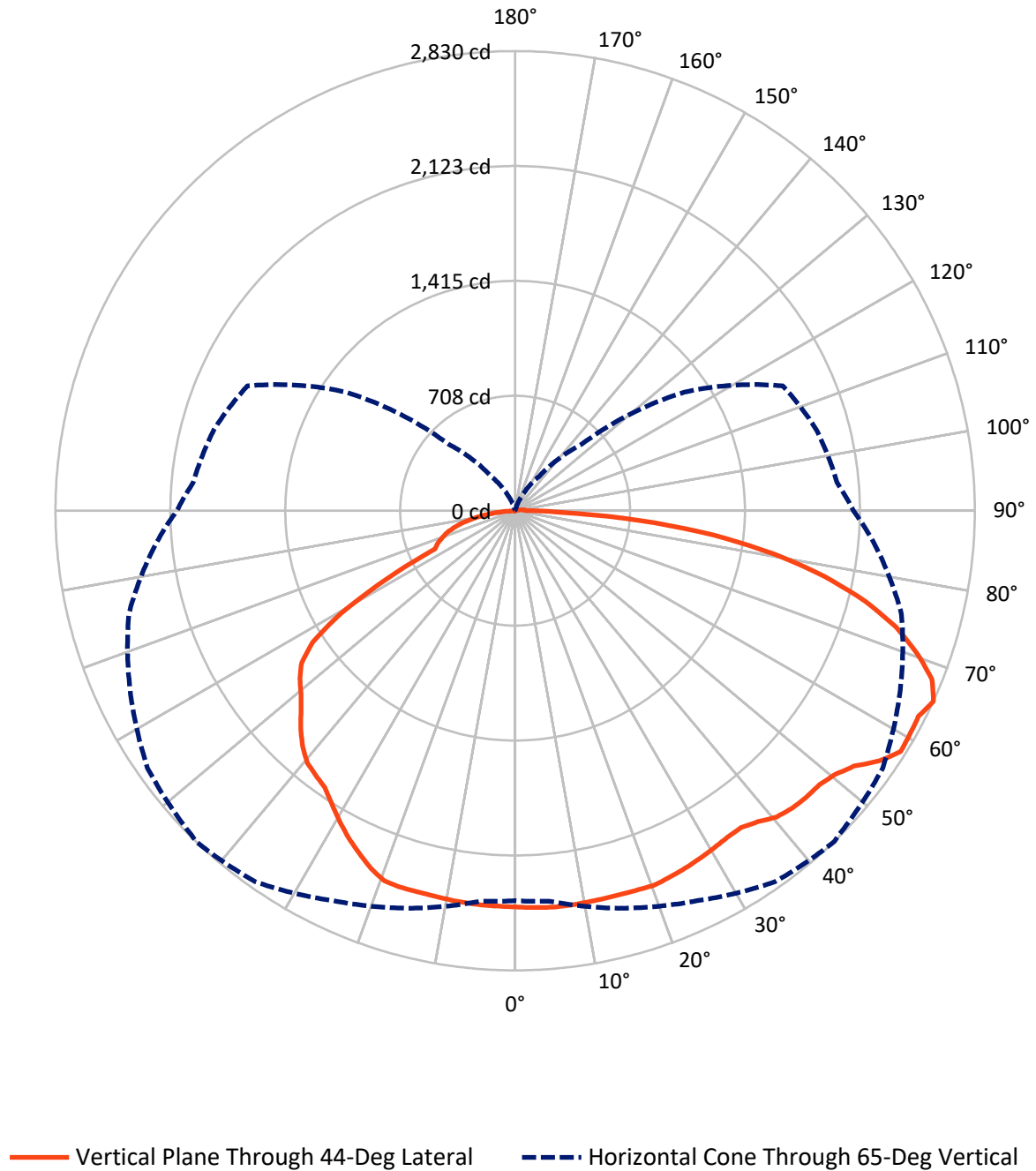


Based on 15 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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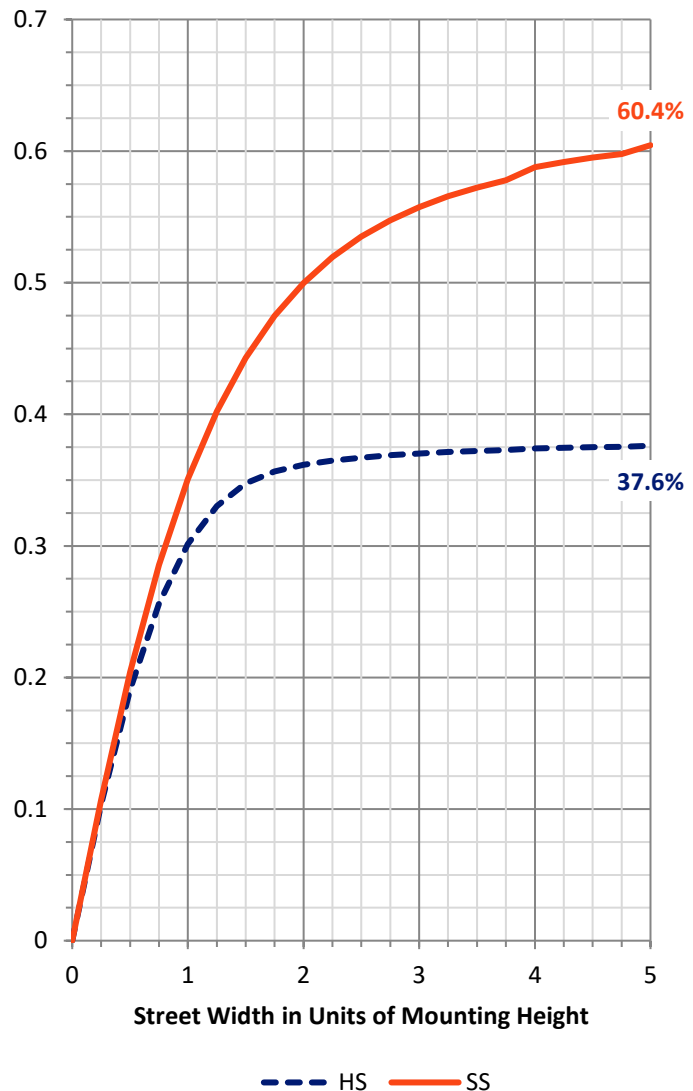
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3992.4	2.8	3995.3
	% Fixture	37.9	0.0	37.9
Street Side	Lumens	6513.0	35.8	6548.8
	% Fixture	61.8	0.3	62.1
Total	Lumens	10505.5	38.7	10544.1
	% Fixture	99.6	0.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	2.2
10°-20°	690.0	6.5
20°-30°	1098.0	10.4
30°-40°	1406.8	13.3
40°-50°	1666.6	15.8
50°-60°	1825.3	17.3
60°-70°	1735.0	16.5
70°-80°	1381.4	13.1
80°-90°	469.3	4.5
90°-100°	24.7	0.2
100°-110°	8.1	0.1
110°-120°	1.8	0.0
120°-130°	1.1	0.0
130°-140°	0.9	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°	10505.5	99.6
0°-180°	10544.1	100.0

Coefficient of Utilization



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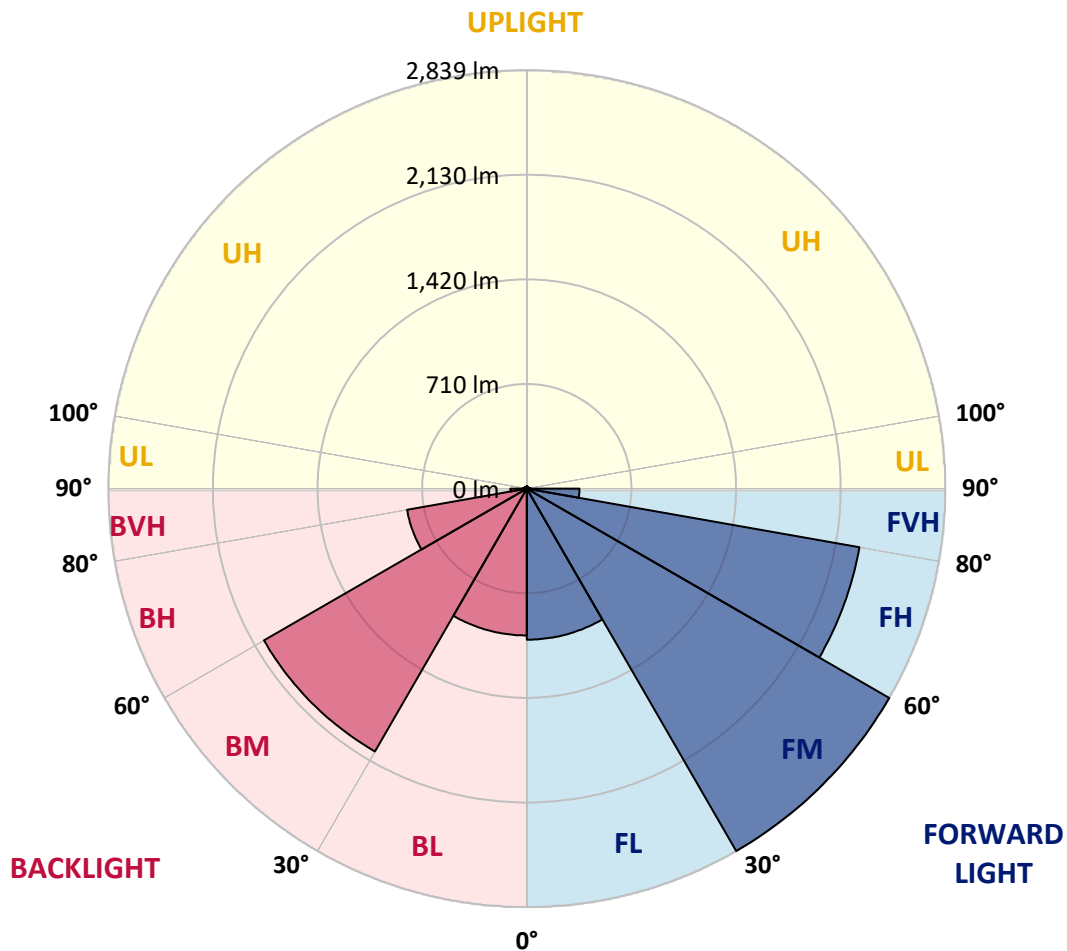
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1024.9	9.7			
FM	(30°-60°)	2839.4	26.9			
FH	(60°-80°)	2291.3	21.7			G2/5000
FVH	(80°-90°)	357.4	3.4			G3/500
BL	(0°-30°)	996.2	9.4	B2/1000		
BM	(30°-60°)	2059.3	19.5	B2/2500		
BH	(60°-80°)	825.0	7.8	B2/1000		G2/1000
BVH	(80°-90°)	111.8	1.1			G2/225
UL	(90°-100°)	24.7	0.2		U2/50	
UH	(100°-180°)	13.9	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°	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9
2.5°	2450.2	2448.3	2448.3	2448.3	2448.3	2446.5	2448.3	2444.6	2446.5	2440.9	2440.9
5°	2455.8	2452.0	2453.9	2453.9	2453.9	2452.0	2453.9	2448.3	2450.2	2442.7	2440.9
7.5°	2457.6	2455.8	2455.8	2455.8	2455.8	2452.0	2453.9	2450.2	2448.3	2442.7	2439.0
10°	2457.6	2455.8	2455.8	2455.8	2453.9	2450.2	2452.0	2446.5	2446.5	2439.0	2435.3
12.5°	2457.6	2455.8	2457.6	2453.9	2453.9	2450.2	2450.2	2444.6	2444.6	2435.3	2431.5
15°	2455.8	2453.9	2453.9	2455.8	2453.9	2450.2	2450.2	2444.6	2442.7	2431.5	2427.8
17.5°	2453.9	2452.0	2453.9	2455.8	2457.6	2453.9	2455.8	2446.5	2442.7	2431.5	2426.0
20°	2455.8	2453.9	2455.8	2459.5	2459.5	2459.5	2459.5	2450.2	2442.7	2431.5	2422.2
22.5°	2450.2	2450.2	2450.2	2450.2	2453.9	2448.3	2448.3	2442.7	2433.4	2424.1	2414.8
25°	2437.1	2437.1	2439.0	2440.9	2440.9	2437.1	2435.3	2429.7	2422.2	2411.1	2399.9
27.5°	2422.2	2422.2	2424.1	2424.1	2427.8	2424.1	2422.2	2414.8	2407.3	2394.3	2381.2
30°	2405.5	2405.5	2405.5	2409.2	2411.1	2411.1	2409.2	2399.9	2390.6	2375.6	2358.9
32.5°	2386.8	2386.8	2392.4	2396.1	2398.0	2398.0	2398.0	2386.8	2375.6	2357.0	2332.8
35°	2371.9	2371.9	2379.4	2392.4	2399.9	2396.1	2394.3	2386.8	2370.1	2349.6	2310.4
37.5°	2381.2	2381.2	2398.0	2416.6	2433.4	2429.7	2429.7	2416.6	2394.3	2360.7	2312.3
40°	2403.6	2405.5	2431.5	2455.8	2476.3	2480.0	2480.0	2465.1	2431.5	2388.7	2321.6
42.5°	2409.2	2412.9	2439.0	2474.4	2493.0	2502.4	2502.4	2481.9	2446.5	2396.1	2317.9
45°	2409.2	2411.1	2440.9	2478.1	2507.9	2515.4	2515.4	2493.0	2448.3	2399.9	2304.8
47.5°	2409.2	2407.3	2433.4	2485.6	2515.4	2521.0	2521.0	2496.8	2453.9	2392.4	2286.2
50°	2403.6	2412.9	2452.0	2493.0	2545.2	2552.7	2550.8	2524.7	2465.1	2401.7	2271.3
52.5°	2416.6	2414.8	2466.9	2548.9	2595.5	2612.3	2614.1	2580.6	2519.1	2427.8	2262.0
55°	2470.7	2472.5	2522.8	2617.9	2688.7	2720.4	2716.6	2673.8	2586.2	2480.0	2288.1
57.5°	2489.3	2507.9	2580.6	2662.6	2770.7	2798.6	2798.6	2746.4	2640.2	2521.0	2306.7
60°	2452.0	2459.5	2548.9	2688.7	2787.4	2793.0	2794.9	2757.6	2645.8	2498.6	2269.4
62.5°	2442.7	2457.6	2526.6	2683.1	2746.4	2787.4	2785.6	2735.3	2640.2	2481.9	2256.4
65°	2401.7	2412.9	2534.0	2649.5	2789.3	2830.3	2821.0	2763.2	2616.0	2463.2	2215.4
67.5°	2317.9	2329.1	2440.9	2603.0	2729.7	2768.8	2778.1	2711.0	2558.2	2375.6	2127.8
70°	2178.1	2194.9	2308.6	2466.9	2601.1	2623.5	2619.7	2578.7	2426.0	2230.3	1999.3
72.5°	1982.5	2008.6	2152.1	2303.0	2418.5	2452.0	2437.1	2390.6	2265.7	2055.2	1824.1
75°	1775.7	1799.9	1913.6	2083.1	2204.2	2226.6	2215.4	2159.5	2032.8	1826.0	1617.3
77.5°	1550.2	1570.7	1667.6	1840.9	1930.3	1949.0	1954.6	1880.0	1760.8	1574.5	1388.1
80°	1246.5	1255.8	1386.3	1499.9	1578.2	1615.4	1611.7	1555.8	1436.6	1281.9	1095.6
82.5°	920.4	927.9	1028.5	1125.4	1196.2	1229.7	1211.1	1155.2	1060.2	927.9	786.3
85°	564.6	551.5	633.5	706.2	749.0	771.4	752.8	721.1	637.2	532.9	434.1
87.5°	203.1	191.9	229.2	240.4	288.8	281.4	298.1	240.4	193.8	137.9	96.9
90°	89.4	89.4	87.6	83.8	76.4	68.9	67.1	55.9	41.0	26.1	9.3
92.5°	82.0	82.0	80.1	76.4	68.9	61.5	61.5	50.3	37.3	24.2	9.3
95°	68.9	68.9	67.1	63.4	57.8	52.2	52.2	41.0	31.7	20.5	7.5
97.5°	54.0	54.0	52.2	50.3	44.7	41.0	41.0	33.5	24.2	14.9	5.6
100°	41.0	41.0	39.1	37.3	35.4	31.7	29.8	24.2	18.6	11.2	3.7
102.5°	29.8	29.8	29.8	27.9	24.2	22.4	22.4	18.6	13.0	9.3	3.7
105°	20.5	20.5	20.5	18.6	16.8	14.9	14.9	13.0	9.3	5.6	1.9
107.5°	13.0	13.0	13.0	13.0	11.2	9.3	9.3	7.5	5.6	3.7	1.9
110°	7.5	5.6	7.5	7.5	7.5	5.6	5.6	3.7	3.7	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.9	1.9	1.9	1.9
115°	1.9	1.9	1.9	3.7	3.7	1.9	1.9	1.9	1.9	1.9	1.9
117.5°	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
120°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
122.5°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
125°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
127.5°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
130°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
132.5°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
135°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
137.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
140°	0.0	1.9	1.9	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
142.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
145°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.9	1.9	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
150°	1.9	1.9	1.9	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
152.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
157.5°	1.9	1.9	1.9	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
170°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
175°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
177.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9	2440.9
2.5°	2440.9	2439.0	2437.1	2439.0	2437.1	2437.1	2435.3	2435.3	2433.4	2433.4	2431.5
5°	2440.9	2439.0	2437.1	2439.0	2435.3	2437.1	2437.1	2435.3	2433.4	2431.5	2429.7
7.5°	2439.0	2439.0	2435.3	2437.1	2433.4	2433.4	2431.5	2431.5	2429.7	2429.7	2427.8
10°	2435.3	2433.4	2433.4	2433.4	2429.7	2429.7	2427.8	2426.0	2426.0	2424.1	2422.2
12.5°	2431.5	2429.7	2427.8	2427.8	2426.0	2424.1	2422.2	2422.2	2420.4	2418.5	2416.6
15°	2426.0	2424.1	2424.1	2424.1	2422.2	2422.2	2420.4	2418.5	2414.8	2412.9	2411.1
17.5°	2424.1	2422.2	2424.1	2424.1	2422.2	2424.1	2420.4	2416.6	2412.9	2411.1	2409.2
20°	2422.2	2422.2	2422.2	2420.4	2418.5	2416.6	2414.8	2412.9	2411.1	2409.2	2407.3
22.5°	2412.9	2411.1	2407.3	2396.1	2383.1	2373.8	2371.9	2375.6	2375.6	2375.6	2370.1
25°	2396.1	2390.6	2375.6	2355.2	2332.8	2317.9	2308.6	2308.6	2306.7	2303.0	2301.1
27.5°	2375.6	2364.5	2338.4	2312.3	2280.6	2262.0	2239.6	2226.6	2221.0	2219.1	2215.4
30°	2347.7	2330.9	2297.4	2263.9	2224.7	2198.6	2163.2	2140.9	2127.8	2122.2	2118.5
32.5°	2314.2	2297.4	2258.3	2217.3	2170.7	2133.4	2088.7	2053.3	2029.1	2017.9	2012.3
35°	2291.8	2267.6	2222.9	2174.4	2127.8	2073.8	2019.8	1971.3	1934.1	1921.0	1913.6
37.5°	2282.5	2260.1	2211.7	2163.2	2111.1	2045.9	1982.5	1913.6	1863.3	1840.9	1833.4
40°	2288.1	2260.1	2206.1	2153.9	2092.4	2019.8	1935.9	1850.2	1785.0	1753.3	1745.9
42.5°	2275.0	2243.4	2180.0	2124.1	2047.7	1965.7	1863.3	1764.5	1676.9	1650.8	1639.7
45°	2252.7	2213.5	2144.6	2073.8	1993.7	1893.1	1786.9	1660.2	1555.8	1524.1	1514.8
47.5°	2230.3	2176.3	2094.3	2029.1	1932.2	1814.8	1690.0	1548.4	1417.9	1386.3	1380.7
50°	2196.8	2146.5	2058.9	1982.5	1883.8	1747.7	1606.1	1429.1	1281.9	1227.9	1213.0
52.5°	2181.9	2116.7	2032.8	1973.2	1853.9	1699.3	1520.4	1330.4	1118.0	1050.9	1036.0
55°	2196.8	2114.8	2025.4	1967.6	1829.7	1637.8	1417.9	1175.7	929.8	859.0	838.5
57.5°	2170.7	2099.9	2010.5	1945.2	1766.4	1511.1	1268.9	957.7	702.4	611.1	603.7
60°	2137.2	2036.5	1952.7	1893.1	1634.1	1272.6	987.5	682.0	423.0	344.7	329.8
62.5°	2124.1	2019.8	1922.9	1850.2	1457.1	935.4	601.8	344.7	175.1	123.0	111.8
65°	2083.1	1990.0	1921.0	1818.5	1272.6	577.6	259.0	102.5	7.5	5.6	5.6
67.5°	2004.9	1909.8	1863.3	1803.6	1254.0	551.5	234.8	93.2	3.7	0.0	0.0
70°	1870.7	1796.2	1764.5	1732.8	1199.9	510.5	214.3	83.8	1.9	0.0	0.0
72.5°	1693.7	1643.4	1637.8	1634.1	1121.7	471.4	191.9	74.5	1.9	0.0	0.0
75°	1516.7	1455.2	1464.5	1486.9	1024.8	417.4	165.8	65.2	1.9	0.0	0.0
77.5°	1293.1	1248.4	1270.7	1308.0	898.1	354.0	136.0	52.2	1.9	0.0	0.0
80°	1017.3	987.5	1037.8	1071.4	734.1	281.4	102.5	37.3	0.0	0.0	0.0
82.5°	722.9	706.2	752.8	795.6	545.9	199.4	70.8	24.2	0.0	0.0	0.0
85°	389.4	380.1	424.8	471.4	327.9	113.7	35.4	11.2	0.0	0.0	0.0
87.5°	96.9	89.4	91.3	109.9	80.1	24.2	5.6	1.9	0.0	0.0	0.0
90°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
102.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
110°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P436897

CATALOG NUMBER: TT-D6-735-U-MQ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
115°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
117.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
125°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
130°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
135°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
147.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
165°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
170°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
172.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
175°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
177.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

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

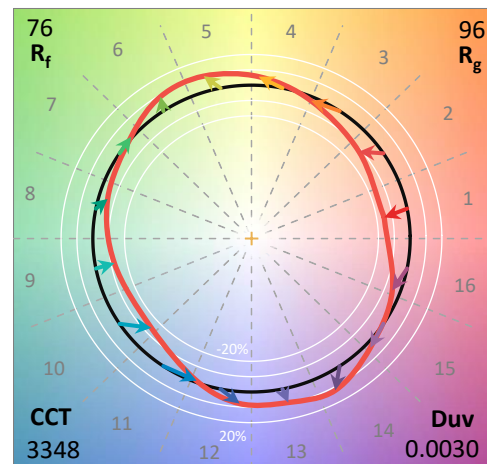
Test Information

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

Photopic Flux vs. Wavelength

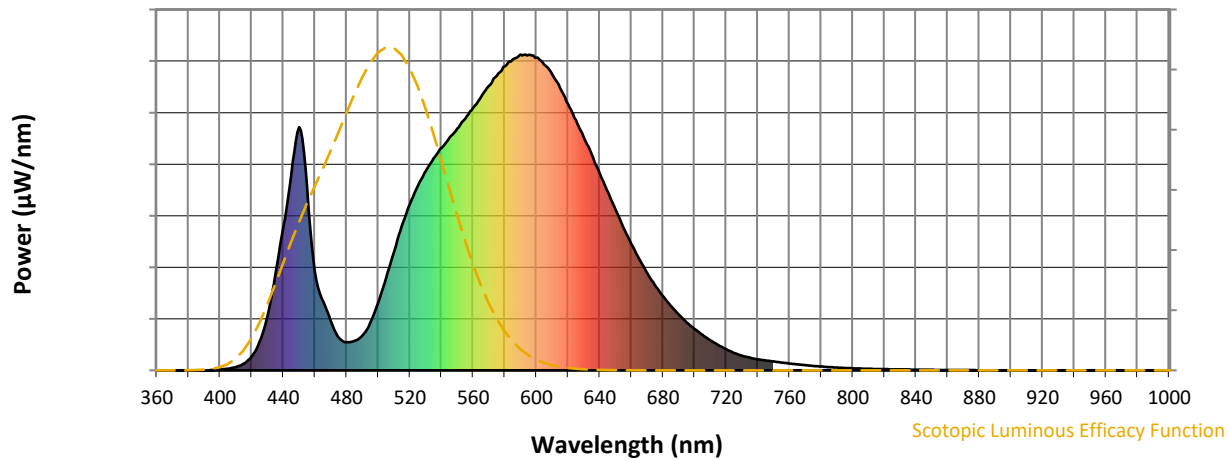


Photopic Lumens: NR

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	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



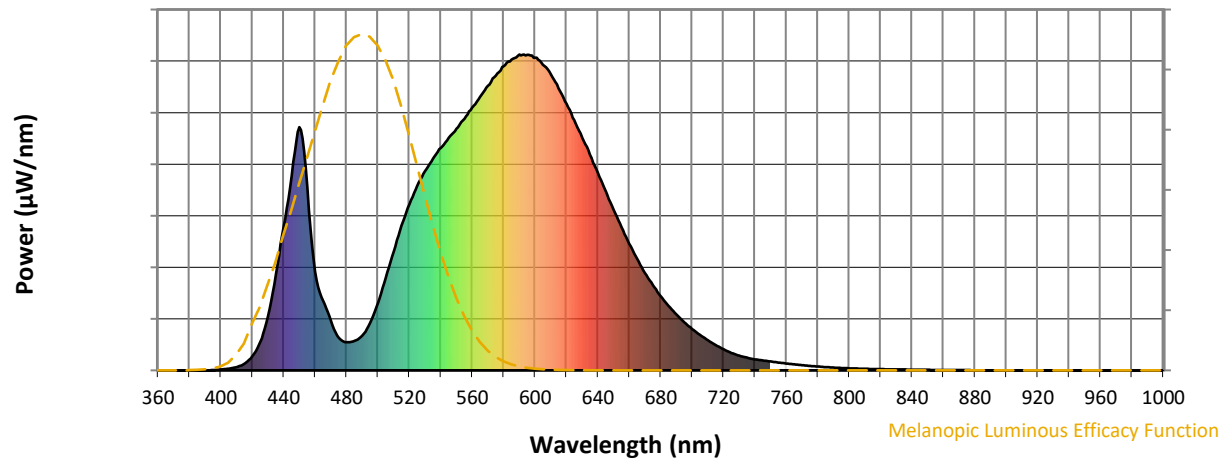
Scotopic Lumens: NR

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

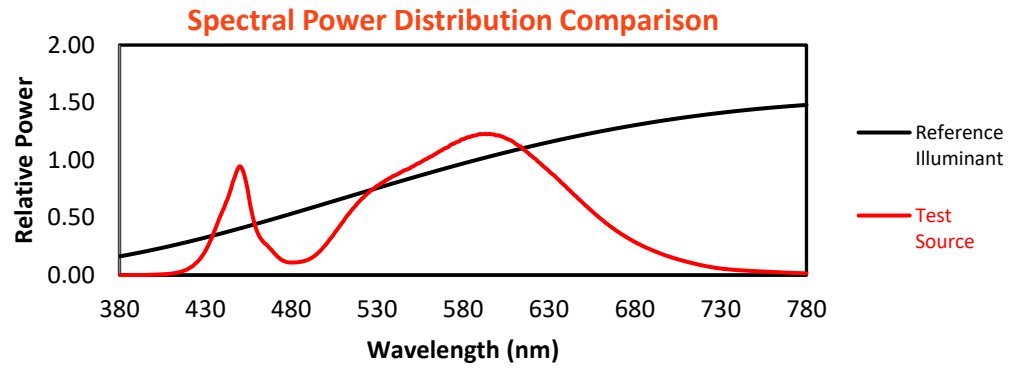
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	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

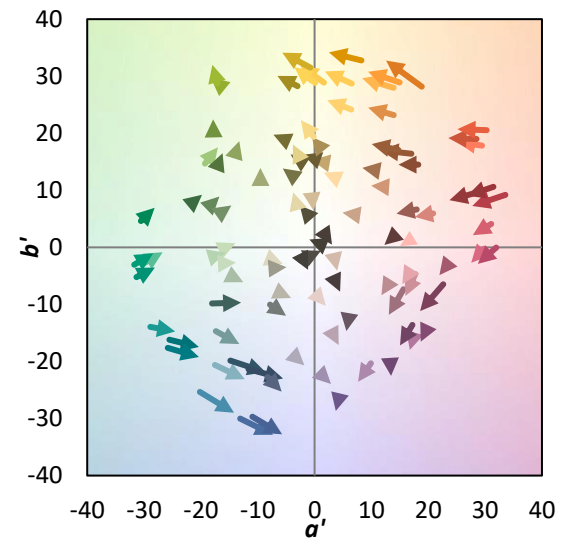
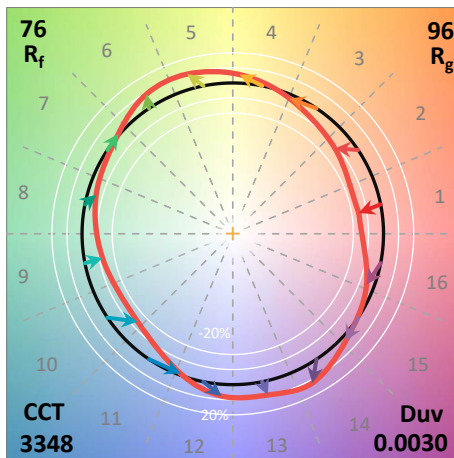
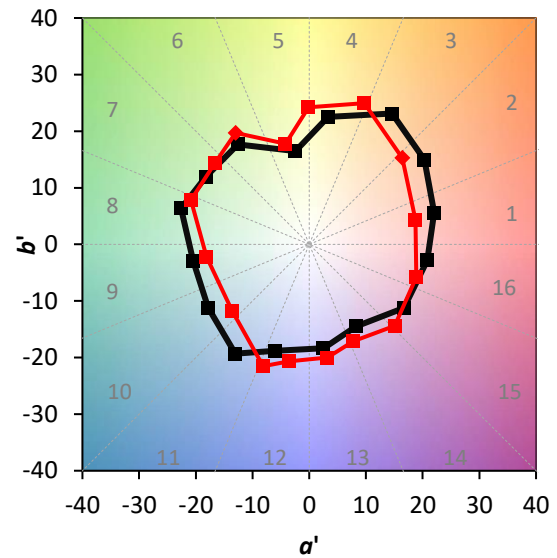
TM-30-18

Summary

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

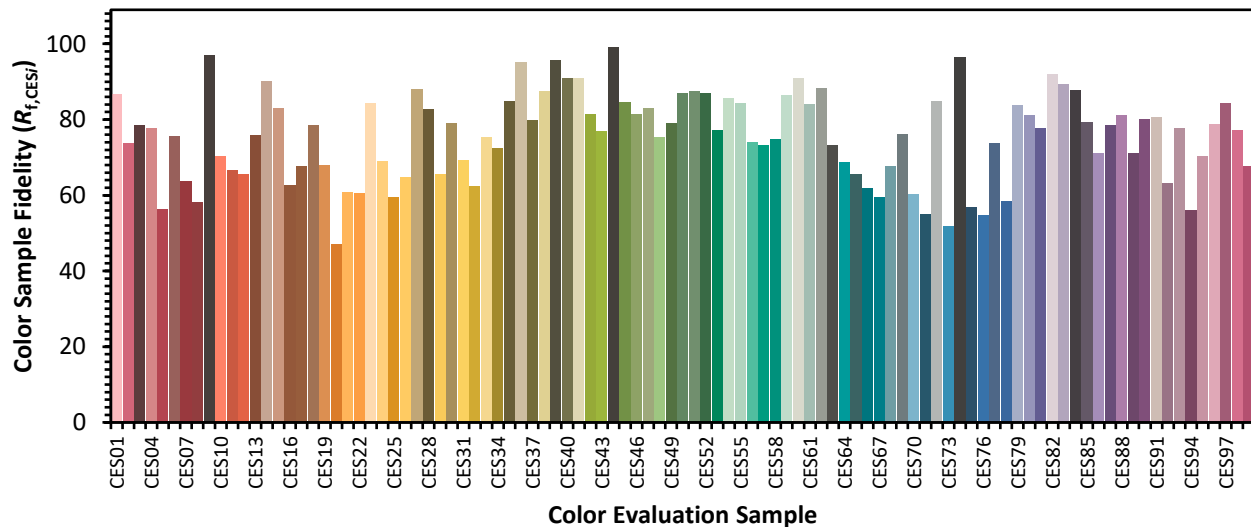


Color Vector Graphics

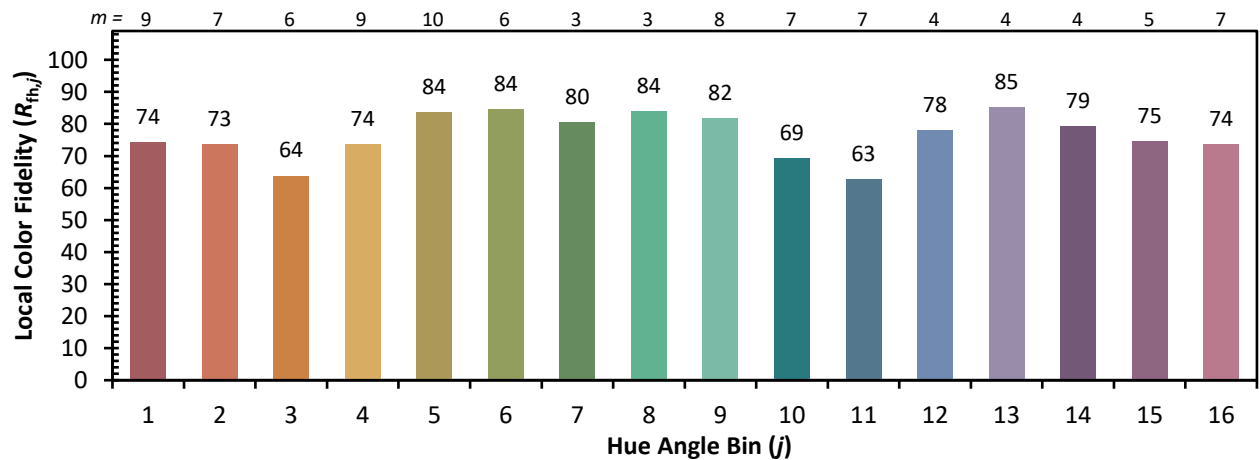


Individual Sample Fidelity Index ($R_{f,i}$)

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)