

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: LUMARK

Report Number: P1449878

Luminaire Tested: **TWC150\_T4\_150W\_3000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( )  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TWC150\_T4\_150W\_3000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 150W  
3000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21436 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 0.42' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G3

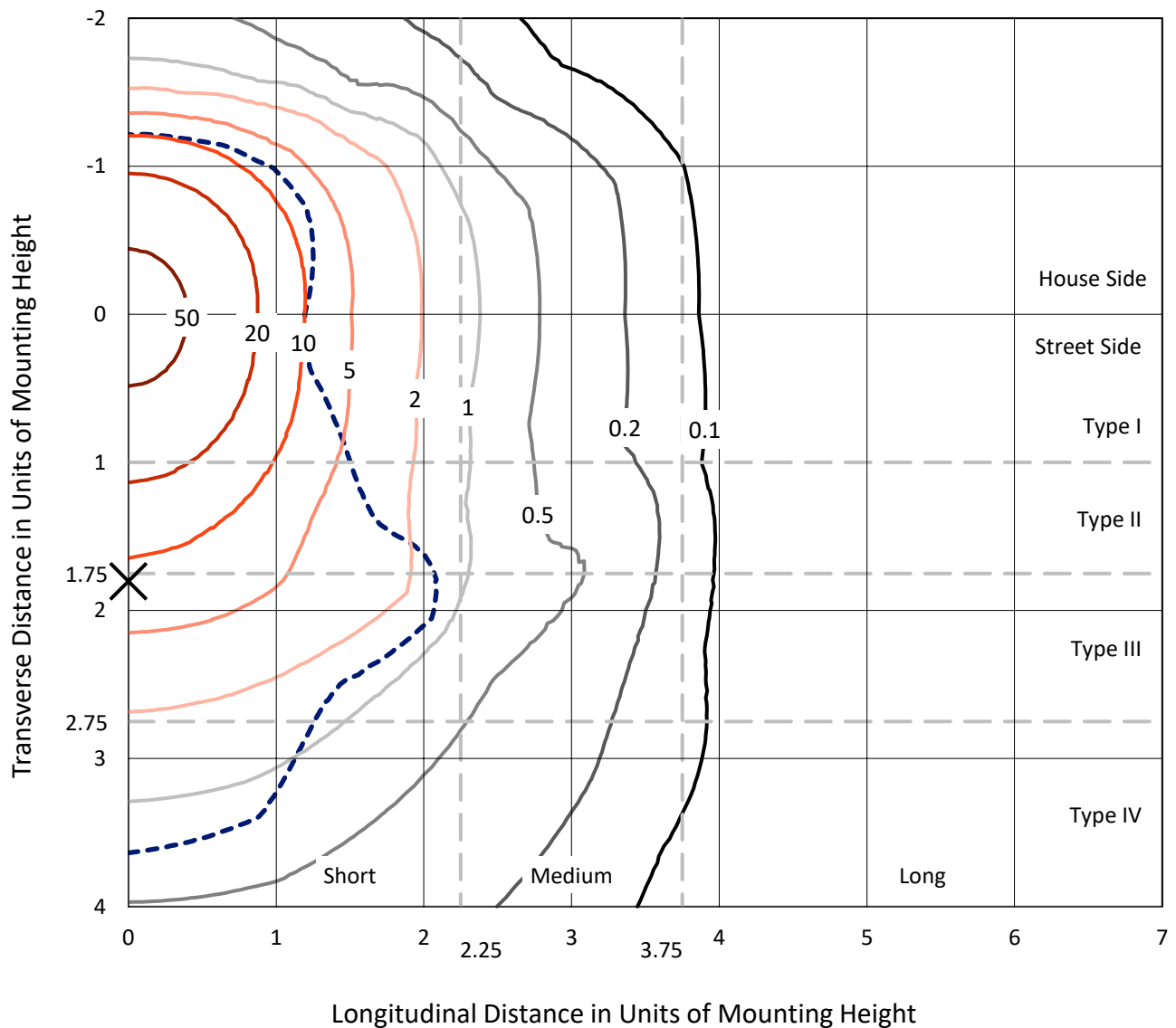
Input Watts (W): 150.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

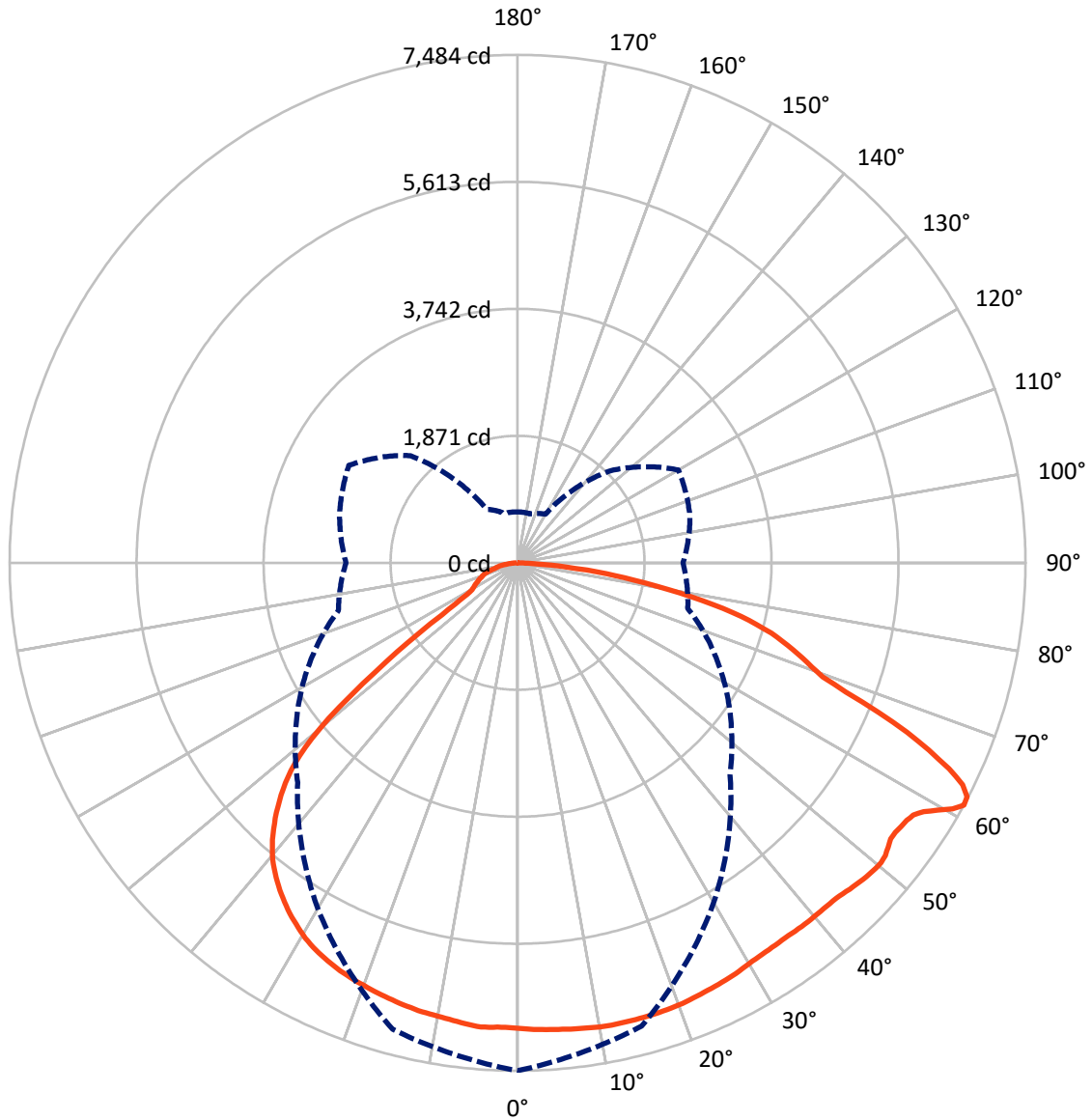
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 68.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 61-Deg Vertical

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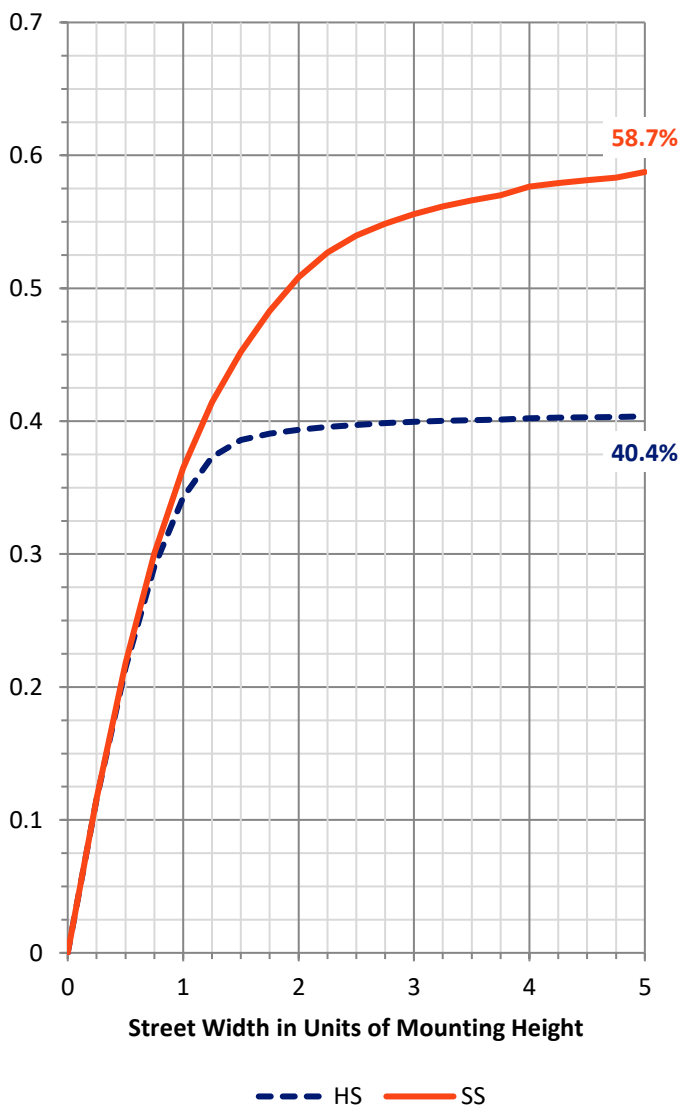
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8714.5	0.0	8714.5
	% Fixture	40.7	0.0	40.7
<b>Street Side</b>	Lumens	12721.5	0.0	12721.5
	% Fixture	59.3	0.0	59.3
<b>Total</b>	Lumens	21436.0	0.0	21436.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.7	3.0
10°-20°	1896.4	8.8
20°-30°	2948.4	13.8
30°-40°	3694.8	17.2
40°-50°	4023.3	18.8
50°-60°	3634.5	17.0
60°-70°	2767.0	12.9
70°-80°	1463.1	6.8
80°-90°	355.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21436.0	100.0
0°-180°	21436.0	100.0

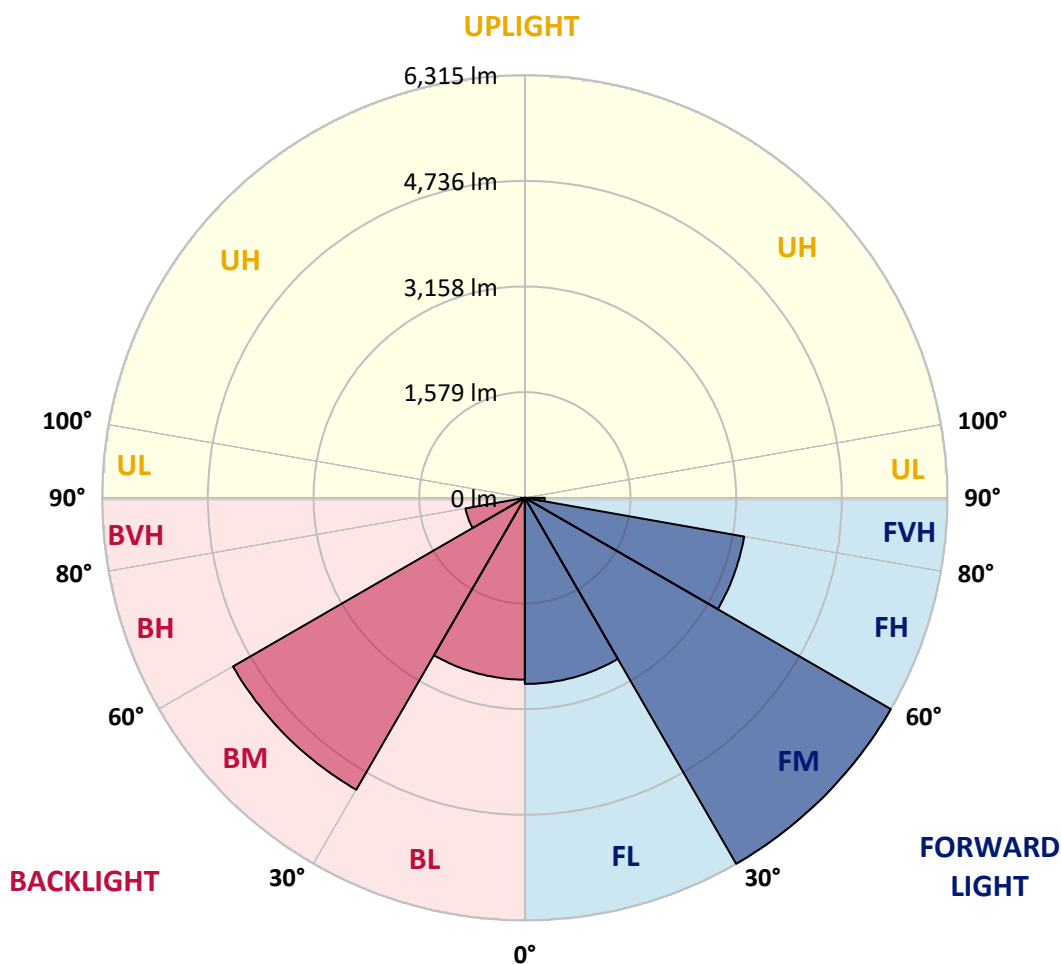


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2780.7	13.0			
FM (30°-60°)	6315.1	29.5			
FH (60°-80°)	3329.1	15.5			G2/5000
FVH (80°-90°)	296.5	1.4			G3/500
BL (0°-30°)	2716.7	12.7	B4/5000		
BM (30°-60°)	5037.5	23.5	B4/8500		
BH (60°-80°)	901.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	59.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7
1°	6873.3	6872.5	6869.3	6864.4	6861.8	6858.9	6859.2	6854.2	6855.0	6852.1	6851.0
2°	6882.6	6879.4	6873.5	6867.8	6862.5	6855.0	6857.1	6846.2	6845.2	6845.6	6843.1
3°	6890.5	6885.8	6878.4	6870.6	6859.9	6850.6	6849.3	6836.8	6836.5	6837.5	6841.2
4°	6897.8	6891.6	6883.3	6869.9	6855.9	6840.8	6836.4	6825.6	6825.5	6833.8	6843.6
5°	6904.2	6896.2	6883.9	6869.2	6846.6	6830.4	6822.6	6811.0	6814.5	6833.4	6847.5
6°	6913.6	6903.2	6886.5	6865.6	6842.9	6816.7	6805.5	6793.9	6805.4	6830.9	6841.8
7°	6921.0	6909.2	6887.6	6859.3	6831.3	6800.8	6784.9	6774.9	6796.5	6820.9	6826.6
8°	6931.2	6915.7	6887.9	6853.2	6817.8	6781.8	6763.6	6754.7	6785.5	6803.1	6805.8
9°	6940.3	6922.9	6889.2	6845.3	6801.8	6761.8	6739.8	6733.2	6769.9	6779.7	6785.9
10°	6948.6	6928.4	6889.3	6839.5	6787.4	6740.0	6710.6	6711.6	6748.7	6753.4	6765.4
11°	6951.5	6933.0	6888.3	6831.5	6770.8	6717.9	6682.3	6689.4	6722.3	6729.1	6745.3
12°	6950.8	6933.1	6884.7	6818.9	6751.8	6688.5	6652.0	6664.6	6693.6	6704.4	6727.1
13°	6950.1	6928.8	6875.7	6802.2	6726.8	6659.8	6616.9	6635.0	6661.2	6675.2	6710.4
14°	6949.4	6927.4	6868.6	6783.0	6700.9	6631.8	6579.2	6601.9	6626.2	6650.6	6693.9
15°	6948.7	6924.1	6855.7	6765.0	6670.1	6596.0	6540.2	6566.7	6588.3	6623.0	6673.9
16°	6948.0	6916.1	6843.2	6740.8	6637.9	6560.4	6500.1	6527.9	6551.4	6596.6	6651.1
17°	6945.9	6910.2	6829.5	6714.5	6599.4	6517.6	6456.8	6487.8	6511.5	6568.0	6628.0
18°	6941.2	6902.5	6814.2	6686.7	6559.5	6472.6	6408.8	6441.7	6472.9	6536.9	6605.7
19°	6935.9	6892.9	6797.6	6659.2	6516.5	6420.8	6361.5	6395.3	6431.1	6503.0	6580.3
20°	6930.5	6883.3	6780.1	6630.9	6472.7	6368.7	6308.9	6346.8	6391.4	6468.3	6555.0
21°	6920.7	6874.8	6761.4	6600.1	6431.4	6310.3	6257.8	6297.9	6348.5	6437.1	6528.6
22°	6910.0	6861.3	6741.4	6570.0	6383.6	6253.8	6203.1	6243.2	6303.9	6400.7	6499.9
23°	6899.1	6846.9	6721.0	6536.6	6335.2	6191.2	6143.6	6191.8	6254.6	6364.1	6469.8
24°	6890.6	6835.9	6700.0	6505.8	6287.4	6127.7	6084.2	6135.4	6203.2	6320.9	6436.9
25°	6879.9	6818.7	6677.7	6467.1	6237.1	6062.4	6018.7	6080.5	6149.8	6281.1	6406.1
26°	6869.6	6805.8	6653.9	6433.3	6187.4	5995.2	5951.9	6019.3	6096.0	6238.8	6370.7
27°	6860.0	6789.6	6630.5	6395.7	6132.2	5928.7	5882.9	5957.3	6040.4	6194.9	6337.9
28°	6843.9	6773.2	6603.0	6355.8	6080.1	5858.2	5813.8	5892.8	5984.7	6148.4	6298.0
29°	6827.0	6752.8	6577.4	6314.6	6022.1	5789.0	5739.3	5826.3	5929.0	6104.1	6259.1
30°	6813.7	6733.3	6548.1	6271.6	5963.2	5715.7	5665.1	5755.4	5872.0	6056.1	6214.8
31°	6805.9	6717.0	6515.9	6229.4	5902.2	5641.8	5590.0	5682.4	5810.8	6003.9	6170.7
32°	6798.9	6703.1	6481.9	6184.3	5841.4	5564.1	5514.1	5606.7	5751.9	5951.5	6121.9
33°	6794.1	6689.5	6452.8	6136.3	5774.8	5486.8	5434.7	5527.7	5688.3	5896.4	6069.4
34°	6792.0	6678.3	6422.5	6087.5	5710.7	5408.8	5354.0	5450.4	5627.9	5841.0	6009.1
35°	6788.4	6671.1	6392.8	6037.0	5642.2	5326.8	5269.9	5366.9	5559.2	5779.6	5947.1
36°	6791.9	6661.7	6365.5	5984.0	5573.3	5243.2	5181.8	5286.9	5493.1	5717.9	5880.2
37°	6797.6	6659.3	6343.2	5932.8	5500.9	5156.4	5092.7	5202.2	5420.6	5650.6	5808.5
38°	6800.3	6657.0	6317.1	5882.8	5427.7	5069.4	5000.4	5116.7	5345.5	5581.0	5733.1
39°	6804.0	6651.1	6294.3	5828.5	5354.5	4975.4	4904.3	5030.5	5266.8	5504.1	5653.3
40°	6802.4	6641.9	6274.8	5780.7	5274.2	4880.4	4806.7	4944.6	5188.9	5426.6	5573.6
41°	6804.6	6632.2	6249.4	5732.0	5194.0	4784.4	4707.9	4858.8	5110.2	5346.0	5482.9
42°	6810.4	6626.4	6221.3	5690.0	5115.3	4685.8	4605.6	4768.6	5027.8	5259.6	5392.9
43°	6817.4	6621.0	6191.4	5639.6	5035.8	4586.6	4503.3	4677.5	4941.3	5170.4	5289.4
44°	6836.6	6621.5	6165.6	5591.6	4956.7	4482.6	4401.3	4586.7	4856.9	5074.3	5182.3



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	6861.8	6634.7	6136.4	5540.2	4883.0	4381.8	4291.2	4492.6	4765.5	4976.4	5063.0
46°	6880.9	6651.0	6108.2	5488.3	4810.8	4272.7	4184.8	4395.0	4673.1	4875.7	4935.3
47°	6905.3	6655.9	6089.9	5432.1	4740.0	4172.6	4075.7	4299.7	4579.2	4773.3	4797.7
48°	6920.4	6666.8	6087.1	5372.9	4672.7	4065.6	3965.4	4197.1	4479.9	4655.3	4650.4
49°	6937.0	6669.3	6069.8	5321.9	4605.1	3964.8	3850.5	4098.8	4377.1	4534.1	4492.8
50°	6942.7	6682.0	6047.7	5262.0	4539.4	3858.2	3734.8	3990.7	4271.7	4401.0	4326.4
51°	6925.0	6689.5	6022.4	5211.8	4470.6	3755.8	3620.6	3881.8	4160.2	4262.3	4151.5
52°	6880.8	6663.5	5992.0	5164.5	4405.1	3653.5	3501.7	3766.7	4043.9	4112.3	3948.6
53°	6838.5	6609.9	5965.8	5113.7	4327.0	3552.2	3381.9	3650.0	3925.4	3955.7	3700.4
54°	6835.8	6566.1	5921.0	5048.2	4240.0	3452.1	3260.6	3530.2	3803.6	3790.3	3386.7
55°	6858.6	6567.6	5856.8	4984.7	4147.0	3345.1	3138.5	3407.0	3673.5	3616.2	2991.6
56°	6875.9	6579.2	5795.2	4913.4	4045.8	3241.1	3018.8	3289.2	3535.7	3430.1	2543.3
57°	6914.0	6588.2	5771.6	4845.1	3941.3	3127.7	2896.5	3165.8	3388.0	3233.1	2114.2
58°	7017.5	6618.3	5769.2	4765.4	3840.0	3010.3	2778.2	3042.2	3231.8	2990.2	1685.1
59°	7180.8	6725.6	5758.5	4645.5	3739.9	2879.7	2661.8	2904.6	3065.2	2695.8	1259.5
60°	7362.7	6884.7	5746.7	4525.5	3629.3	2742.3	2549.0	2773.9	2905.0	2303.9	1007.0
61°	7483.8	7065.5	5779.9	4425.6	3515.3	2596.1	2437.9	2630.1	2736.9	1912.0	827.4
62°	7467.0	7158.9	5895.7	4354.0	3386.7	2451.1	2327.6	2484.5	2568.8	1520.3	728.7
63°	7326.0	7104.4	6065.5	4289.2	3252.9	2302.1	2217.8	2338.9	2389.2	1156.6	680.3
64°	7041.3	6915.3	6214.5	4233.3	3106.3	2153.7	2103.8	2189.5	2202.2	887.8	651.4
65°	6659.7	6569.8	6207.4	4208.7	2936.7	2008.3	1985.6	2049.2	1985.4	715.6	625.7
66°	6257.4	6144.4	6011.1	4248.6	2742.5	1860.7	1867.4	1910.0	1768.5	622.0	600.4
67°	5758.1	5723.7	5619.4	4423.0	2552.4	1729.1	1748.5	1770.7	1549.6	579.1	573.5
68°	5197.6	5145.5	5105.2	4677.7	2382.3	1595.6	1608.3	1623.4	1234.1	550.1	545.6
69°	4801.2	4680.2	4569.6	4734.0	2232.1	1472.8	1467.4	1493.9	917.3	522.3	517.7
70°	4600.7	4396.7	4028.8	4411.7	2086.8	1349.7	1321.7	1364.1	680.7	493.3	490.4
71°	4426.4	4246.0	3649.9	3721.5	1960.8	1238.9	1180.5	1242.1	546.6	463.4	463.7
72°	4256.0	4082.4	3447.5	3032.3	1905.2	1131.7	1043.5	1114.1	480.3	433.5	439.0
73°	4071.2	3916.3	3281.9	2570.3	2109.4	1026.0	912.8	982.9	443.0	404.1	417.9
74°	3881.3	3746.3	3105.4	2382.7	2658.6	924.0	793.2	854.5	410.0	376.5	394.6
75°	3644.0	3563.9	2911.2	2212.4	2336.5	816.0	680.5	720.1	375.7	350.7	364.5
76°	3389.3	3356.1	2727.2	2074.0	1478.8	707.8	583.5	599.3	344.8	326.4	333.8
77°	3099.1	3141.1	2518.3	1942.3	1051.5	599.6	491.3	474.4	314.5	302.5	301.6
78°	2766.6	2900.1	2319.2	1722.8	900.2	544.6	410.4	379.1	286.5	273.8	269.2
79°	2430.6	2614.5	2162.6	1386.4	974.2	479.5	337.9	319.3	258.2	243.2	240.9
80°	2076.8	2314.6	1987.7	1165.6	1032.8	413.1	276.9	279.4	232.7	212.6	212.6
81°	1739.8	1986.3	1787.4	1046.8	814.3	377.1	225.8	243.7	207.1	181.9	184.7
82°	1443.2	1667.0	1562.9	948.0	595.2	329.8	174.8	208.0	181.6	147.1	167.8
83°	1203.4	1417.6	1242.1	804.6	376.1	294.3	135.4	172.3	152.4	117.6	147.3
84°	857.8	1092.2	1019.3	660.2	315.9	237.2	101.1	138.7	123.0	100.6	123.3
85°	616.8	803.2	785.5	515.7	270.2	151.2	73.7	108.3	94.7	83.6	97.1
86°	376.9	515.4	551.5	222.6	221.2	99.4	50.7	80.0	67.3	62.2	68.8
87°	157.8	227.6	317.5	87.6	154.2	79.6	35.2	53.5	48.5	43.9	48.7
88°	78.7	113.1	160.6	63.7	48.7	59.9	19.7	35.9	32.9	25.6	28.7
89°	2.5	2.2	3.9	42.6	36.7	40.3	4.6	18.3	17.3	7.7	9.1



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449878  
 CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449878  
CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449878

CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7	6860.7
1°	6851.5	6852.1	6853.4	6854.9	6851.8	6853.1	6856.8	6864.2	6866.1	6869.5	6871.5
2°	6845.5	6847.5	6846.5	6847.1	6846.1	6847.1	6850.8	6863.6	6864.3	6872.2	6876.8
3°	6843.0	6846.6	6844.9	6842.8	6840.0	6840.0	6844.5	6859.0	6863.6	6874.2	6881.8
4°	6851.9	6856.2	6852.3	6845.0	6835.8	6830.6	6833.5	6849.0	6859.6	6870.6	6884.3
5°	6855.4	6859.3	6856.8	6849.5	6836.1	6822.4	6822.7	6840.7	6852.3	6871.2	6886.9
6°	6847.7	6849.4	6850.8	6847.9	6836.3	6812.3	6806.8	6827.0	6843.3	6866.7	6886.6
7°	6831.9	6834.1	6835.6	6836.9	6828.6	6806.3	6792.7	6810.7	6831.2	6860.4	6884.7
8°	6811.3	6816.6	6817.0	6817.6	6815.7	6800.0	6774.3	6791.1	6818.1	6852.2	6883.9
9°	6796.8	6801.5	6804.0	6797.7	6797.7	6789.4	6753.7	6772.3	6802.7	6841.9	6878.3
10°	6779.7	6786.1	6786.5	6778.8	6773.8	6772.2	6734.0	6749.5	6782.8	6829.8	6869.3
11°	6766.9	6775.9	6772.1	6759.8	6749.4	6748.0	6711.0	6722.8	6763.0	6813.1	6861.4
12°	6753.4	6767.7	6760.9	6743.1	6725.4	6722.5	6690.3	6695.7	6741.4	6792.2	6851.4
13°	6743.5	6756.2	6746.5	6724.9	6698.8	6690.8	6664.1	6666.9	6715.2	6769.9	6841.4
14°	6727.0	6739.8	6733.0	6709.4	6675.6	6657.1	6636.1	6634.9	6685.8	6746.9	6824.5
15°	6711.3	6726.5	6718.5	6692.2	6648.6	6623.1	6604.2	6598.1	6654.5	6719.0	6804.2
16°	6691.2	6709.4	6699.7	6668.8	6624.6	6586.1	6570.1	6560.9	6617.3	6688.8	6778.6
17°	6669.1	6690.2	6680.3	6647.6	6597.7	6548.6	6532.6	6518.4	6576.7	6651.9	6754.2
18°	6651.6	6674.8	6662.8	6625.7	6567.7	6509.0	6490.0	6477.8	6532.3	6612.1	6731.3
19°	6632.1	6657.2	6644.4	6600.6	6536.3	6474.7	6447.1	6429.9	6483.7	6571.4	6703.5
20°	6610.3	6635.5	6622.0	6576.5	6503.5	6434.0	6398.0	6379.8	6429.9	6533.5	6680.9
21°	6588.8	6616.2	6597.8	6552.1	6469.6	6393.0	6351.2	6328.5	6374.6	6493.1	6654.9
22°	6562.3	6597.7	6575.7	6522.1	6435.9	6349.7	6300.9	6273.4	6320.6	6451.0	6625.5
23°	6541.5	6574.7	6554.8	6492.0	6400.2	6304.3	6249.6	6212.1	6262.1	6405.6	6595.3
24°	6519.9	6552.4	6531.6	6458.8	6363.0	6254.7	6196.6	6155.3	6202.3	6360.2	6563.8
25°	6491.6	6527.2	6505.8	6427.0	6322.4	6204.8	6142.4	6089.7	6140.5	6312.5	6533.3
26°	6464.0	6499.2	6476.9	6395.6	6281.9	6147.1	6083.3	6024.1	6075.6	6263.0	6499.3
27°	6432.8	6465.6	6445.0	6363.2	6238.3	6094.8	6022.1	5956.3	6012.6	6214.7	6464.0
28°	6395.0	6433.2	6409.9	6327.5	6194.4	6040.0	5958.1	5889.5	5949.0	6161.4	6426.4
29°	6356.7	6395.2	6371.7	6289.4	6146.3	5982.5	5891.0	5817.0	5876.5	6108.0	6385.4
30°	6316.1	6350.5	6332.0	6249.8	6099.4	5926.8	5823.2	5746.9	5805.7	6050.0	6346.7
31°	6267.5	6301.2	6284.0	6202.5	6050.6	5867.7	5750.3	5671.6	5734.5	5993.7	6306.6
32°	6216.1	6245.8	6231.1	6155.2	5998.2	5809.8	5677.6	5598.3	5661.3	5934.5	6268.5
33°	6156.6	6190.7	6174.5	6099.1	5942.6	5747.8	5597.0	5520.1	5585.7	5874.8	6221.1
34°	6096.8	6128.5	6114.1	6044.9	5887.2	5683.4	5521.9	5442.1	5511.7	5810.2	6177.7
35°	6031.1	6063.6	6050.5	5980.7	5830.0	5615.6	5436.1	5357.6	5431.7	5744.7	6126.9
36°	5963.7	5994.4	5980.8	5917.4	5767.5	5547.8	5356.0	5274.9	5348.7	5679.7	6077.7
37°	5888.8	5922.9	5910.1	5843.8	5702.9	5475.9	5270.2	5184.9	5268.7	5608.4	6026.4
38°	5814.5	5845.5	5836.0	5770.7	5636.9	5403.1	5188.6	5097.9	5178.7	5541.4	5981.0
39°	5731.3	5759.6	5754.9	5689.8	5562.8	5326.4	5101.9	5002.5	5091.3	5466.6	5932.4
40°	5647.3	5669.1	5669.7	5612.2	5485.2	5249.3	5019.0	4906.9	4995.0	5392.1	5883.1
41°	5547.0	5562.3	5573.1	5529.2	5403.5	5172.3	4930.6	4808.7	4906.8	5311.8	5835.4
42°	5435.8	5449.3	5466.8	5439.2	5319.9	5091.6	4840.4	4711.8	4806.6	5234.2	5791.0
43°	5318.4	5319.3	5346.4	5344.0	5230.7	5007.9	4749.7	4607.9	4708.6	5156.2	5748.3
44°	5187.2	5185.8	5225.4	5237.4	5140.1	4923.8	4657.0	4506.1	4607.0	5081.5	5699.9



REPORT NUMBER: P1449878

CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	5049.1	5038.2	5085.5	5123.0	5045.7	4834.7	4566.2	4399.9	4507.6	5012.5	5658.4
46°	4896.5	4882.3	4939.1	4999.1	4947.7	4745.9	4468.9	4289.6	4403.0	4936.1	5603.5
47°	4738.1	4712.9	4781.6	4868.0	4846.8	4653.9	4373.5	4180.8	4299.6	4870.4	5550.5
48°	4566.8	4528.2	4614.1	4724.3	4739.6	4556.8	4272.6	4066.6	4193.9	4798.1	5493.6
49°	4374.4	4286.8	4426.5	4571.5	4621.7	4456.0	4169.3	3958.4	4087.9	4738.2	5448.0
50°	4128.0	3992.3	4199.9	4413.8	4495.8	4354.4	4064.2	3840.2	3982.6	4671.4	5390.2
51°	3820.3	3605.1	3906.7	4239.7	4361.8	4246.2	3954.0	3725.4	3877.5	4611.4	5338.1
52°	3417.4	3143.9	3528.0	4053.5	4219.0	4136.1	3843.9	3604.5	3777.0	4538.0	5292.6
53°	2964.8	2649.0	3084.3	3835.1	4070.0	4016.4	3728.7	3487.9	3671.6	4462.6	5241.0
54°	2498.6	2215.4	2585.0	3556.2	3912.8	3897.9	3616.8	3367.5	3575.2	4380.9	5185.3
55°	2032.3	1781.7	2160.0	3196.8	3743.4	3770.1	3494.9	3243.2	3470.0	4292.3	5117.9
56°	1568.8	1352.0	1735.0	2775.3	3567.6	3638.5	3374.4	3121.8	3367.7	4195.2	5055.1
57°	1239.2	1099.8	1312.1	2325.6	3381.8	3496.0	3248.3	2993.8	3256.0	4088.1	4987.9
58°	1017.7	931.1	1066.6	1875.7	3179.5	3344.7	3121.9	2874.6	3139.0	3991.7	4914.4
59°	868.7	826.3	901.6	1429.9	2937.7	3189.4	2988.9	2752.0	3012.5	3887.5	4805.2
60°	784.5	775.8	803.0	1122.4	2635.8	3034.2	2855.1	2641.2	2872.9	3782.3	4689.3
61°	745.7	750.1	753.5	909.4	2233.0	2870.5	2714.7	2526.5	2733.5	3666.0	4581.3
62°	719.9	727.0	727.0	774.2	1830.2	2705.1	2572.2	2416.3	2580.2	3545.0	4508.6
63°	696.9	706.3	703.0	702.4	1429.2	2537.2	2431.5	2304.5	2434.7	3415.4	4449.0
64°	674.1	683.8	680.6	665.0	1085.8	2367.4	2285.1	2193.7	2277.7	3277.2	4392.6
65°	649.9	658.8	657.1	638.4	841.4	2193.1	2143.2	2075.2	2132.1	3120.9	4362.9
66°	624.3	635.6	630.3	613.1	694.9	1985.9	2002.8	1948.5	1979.9	2926.8	4394.7
67°	601.2	614.8	606.2	586.3	614.2	1778.6	1862.3	1816.3	1843.9	2733.0	4547.4
68°	577.8	593.5	583.6	558.4	572.8	1571.4	1721.9	1673.1	1709.5	2550.9	4815.3
69°	554.8	571.7	559.4	529.2	543.5	1256.5	1587.8	1533.6	1578.0	2402.7	4938.6
70°	532.0	553.8	537.4	501.1	514.6	930.5	1461.4	1390.8	1453.0	2249.0	4708.1
71°	513.9	535.1	518.2	473.8	485.1	685.3	1339.1	1247.9	1332.3	2115.7	4083.7
72°	492.0	508.8	498.3	448.5	456.6	545.8	1217.2	1106.8	1219.1	2033.4	3366.4
73°	462.2	477.9	469.8	425.3	426.4	474.6	1092.9	974.6	1110.6	2120.3	2812.5
74°	430.0	443.9	439.5	405.2	397.8	435.4	971.6	858.8	1010.7	2663.1	2506.0
75°	395.8	408.8	404.8	376.9	368.0	400.8	842.9	743.6	900.0	2760.7	2334.7
76°	361.9	373.8	370.1	346.8	342.7	367.6	717.4	628.5	798.2	1881.9	2206.8
77°	325.6	338.3	332.0	313.7	316.4	335.6	592.8	534.1	696.7	1172.7	2053.6
78°	294.0	312.5	297.4	281.6	291.4	306.2	477.4	446.2	595.1	988.5	1873.9
79°	271.7	290.7	273.1	249.7	260.4	276.8	380.8	370.7	537.8	909.7	1526.8
80°	252.9	270.5	252.4	217.8	229.2	248.5	315.5	303.9	471.7	1144.0	1275.0
81°	224.9	238.5	226.3	186.1	197.9	222.2	272.4	245.3	415.4	852.0	1128.5
82°	196.8	206.4	200.1	168.6	166.5	195.9	235.4	195.9	374.8	629.4	1022.4
83°	168.8	174.4	173.8	151.1	128.5	169.5	198.4	151.1	336.7	408.3	923.9
84°	135.5	139.4	140.2	127.9	105.2	139.1	161.4	114.9	299.4	338.6	712.5
85°	98.6	101.9	106.0	104.6	88.5	109.9	128.1	89.0	208.1	292.4	498.3
86°	73.0	76.8	77.5	75.8	69.6	81.3	95.9	63.4	114.6	244.2	284.2
87°	51.8	54.5	55.2	51.4	48.4	57.9	68.4	37.7	79.8	169.4	119.1
88°	30.7	32.1	32.8	35.6	33.5	39.4	46.2	20.1	45.1	95.4	59.7
89°	9.7	10.0	10.7	19.8	18.6	21.0	24.0	7.4	10.5	71.7	1.5



REPORT NUMBER: P1449878  
 CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449878  
 CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449878  
CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449878  
 CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	6860.7	6860.7	6860.7
1°	6871.2	6872.7	6873.3
2°	6880.2	6881.9	6882.6
3°	6888.1	6889.5	6890.5
4°	6892.2	6897.7	6897.8
5°	6894.9	6903.6	6904.2
6°	6900.2	6911.9	6913.6
7°	6905.2	6916.3	6921.0
8°	6908.0	6923.9	6931.2
9°	6910.0	6930.1	6940.3
10°	6910.3	6937.7	6948.6
11°	6911.0	6941.8	6951.5
12°	6907.1	6941.1	6950.8
13°	6900.7	6939.8	6950.1
14°	6892.5	6939.8	6949.4
15°	6881.0	6935.6	6948.7
16°	6866.6	6927.6	6948.0
17°	6856.8	6924.2	6945.9
18°	6840.7	6917.1	6941.2
19°	6829.5	6911.4	6935.9
20°	6815.9	6903.4	6930.5
21°	6801.0	6893.3	6920.7
22°	6780.7	6882.2	6910.0
23°	6761.5	6868.0	6899.1
24°	6741.0	6855.9	6890.6
25°	6718.3	6843.8	6879.9
26°	6698.5	6829.2	6869.6
27°	6673.0	6812.9	6860.0
28°	6652.0	6801.7	6843.9
29°	6625.0	6780.7	6827.0
30°	6599.7	6762.6	6813.7
31°	6570.6	6745.3	6805.9
32°	6539.1	6733.5	6798.9
33°	6510.8	6722.0	6794.1
34°	6484.0	6715.2	6792.0
35°	6456.0	6703.1	6788.4
36°	6430.5	6699.1	6791.9
37°	6407.9	6696.4	6797.6
38°	6384.6	6694.4	6800.3
39°	6369.4	6693.4	6804.0
40°	6347.9	6685.8	6802.4
41°	6327.8	6676.6	6804.6
42°	6300.5	6672.4	6810.4
43°	6274.9	6670.4	6817.4
44°	6248.3	6670.0	6836.6



REPORT NUMBER: P1449878  
 CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	6224.7	6684.0	6861.8
46°	6196.7	6697.9	6880.9
47°	6184.4	6708.7	6905.3
48°	6178.8	6720.4	6920.4
49°	6162.9	6729.3	6937.0
50°	6144.7	6739.5	6942.7
51°	6120.9	6740.5	6925.0
52°	6099.2	6716.3	6880.8
53°	6075.7	6661.3	6838.5
54°	6040.9	6622.2	6835.8
55°	5979.1	6619.2	6858.6
56°	5911.6	6638.0	6875.9
57°	5875.0	6646.1	6914.0
58°	5869.4	6677.2	7017.5
59°	5860.2	6778.5	7180.8
60°	5853.8	6934.0	7362.7
61°	5885.1	7114.5	7483.8
62°	5992.2	7215.6	7467.0
63°	6163.0	7169.6	7326.0
64°	6330.8	6990.6	7041.3
65°	6341.1	6669.0	6659.7
66°	6180.8	6242.8	6257.4
67°	5827.8	5816.8	5758.1
68°	5337.3	5246.5	5197.6
69°	4793.0	4742.9	4801.2
70°	4245.4	4439.1	4600.7
71°	3802.7	4277.1	4426.4
72°	3561.8	4123.3	4256.0
73°	3387.2	3943.3	4071.2
74°	3215.4	3778.9	3881.3
75°	3017.5	3583.8	3644.0
76°	2819.2	3379.7	3389.3
77°	2602.3	3157.2	3099.1
78°	2396.7	2929.5	2766.6
79°	2228.8	2645.4	2430.6
80°	2065.3	2343.0	2076.8
81°	1875.6	2007.2	1739.8
82°	1648.9	1681.7	1443.2
83°	1350.1	1449.2	1203.4
84°	1075.7	1139.5	857.8
85°	844.8	848.1	616.8
86°	616.6	557.2	376.9
87°	388.5	266.3	157.8
88°	31.3	133.0	78.7
89°	16.1	1.9	2.5



REPORT NUMBER: P1449878  
CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



REPORT NUMBER: P1449878  
CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
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161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
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165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P1449878  
CATALOG NUMBER: TWC150\_T4\_150W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-1

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-3000K

Data in this report applies to families of products including ;MWP2460W34VDDKYYAD

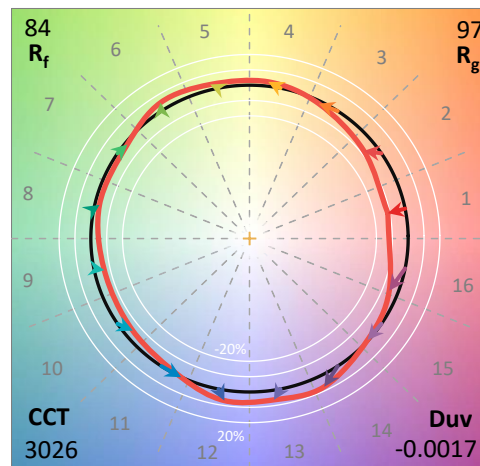
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2601-659-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 02/16/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Lumark  
 Catalog Number: **MWP2460W34VDDKYYAD-T4-24W-3000K**  
 Description: Mester Wedge, at T4 beam setting, 24W output, 3000K

**Spectral Parameters**

CCT (K): 3026  
 CIE u': 0.2503  
 CIE v': 0.5184  
 Duv: -0.0017  
 CIE x: 0.4326  
 CIE y: 0.3983  
 CIE z: 0.1691  
 Peak Wavelength (nm): 604  
 Dominant Wavelength (nm): 583  
 Purity: 49.3886  
 Rf: 84  
 Rg: 97.4

CRI (Ra):	82.7		
R1:	81.4	R9:	7.5
R2:	90.7	R10:	78.8
R3:	96.3	R11:	80.8
R4:	81.1	R12:	70.7
R5:	81.6	R13:	83.7
R6:	88.6	R14:	98.6
R7:	82.6	R15:	74.2
R8:	59.3		



**Test Conditions**

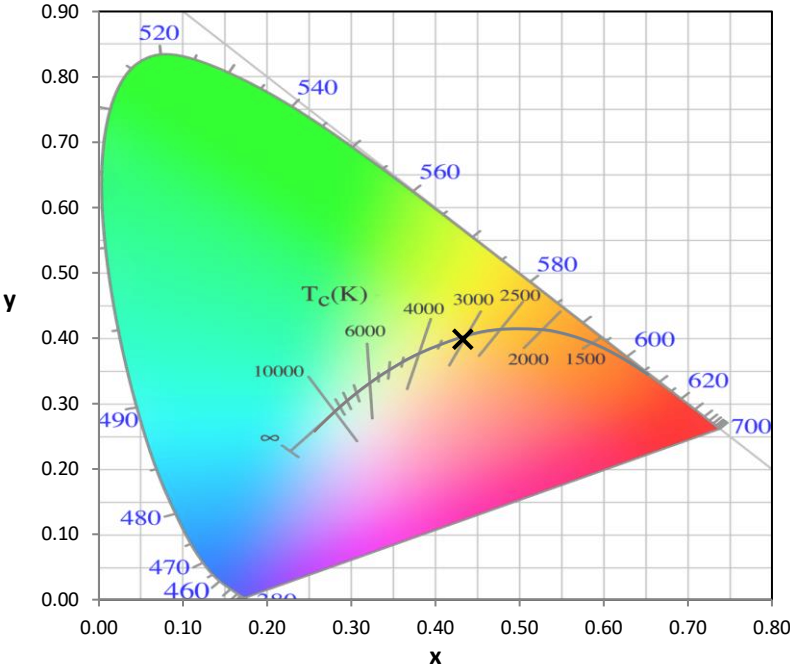
Stabilization Time: 64M  
 Operation Time: 2H 4M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

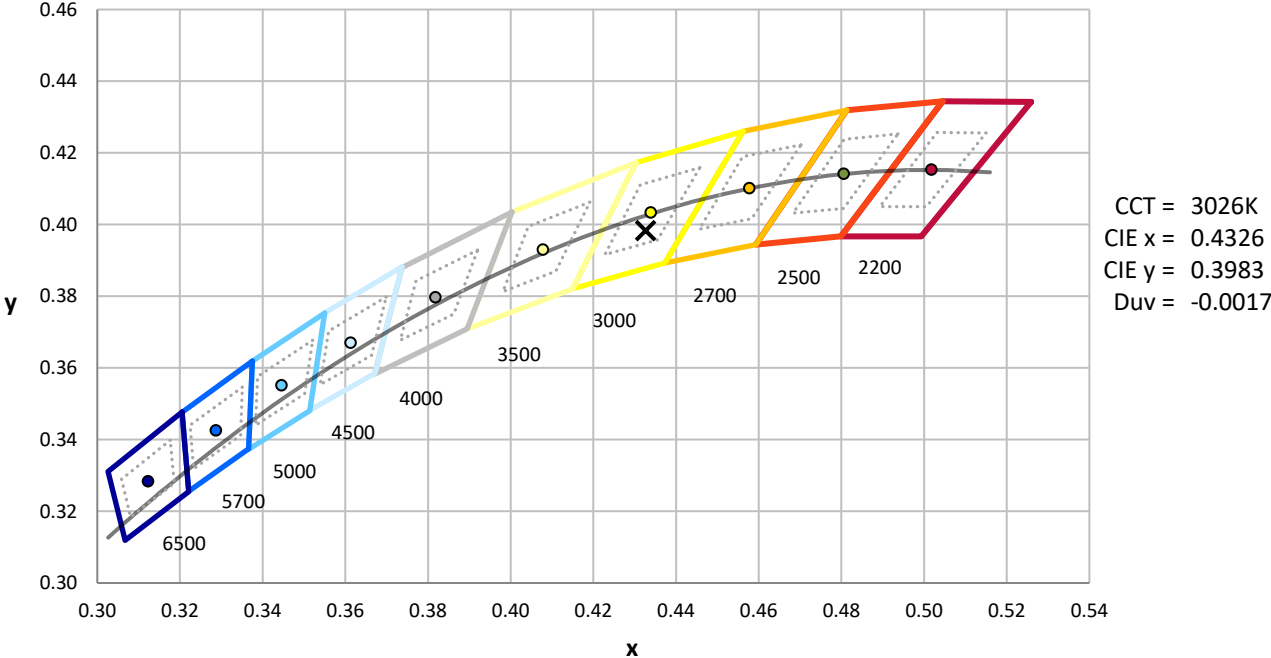
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-1

CIE 1931 Chromaticity Diagram



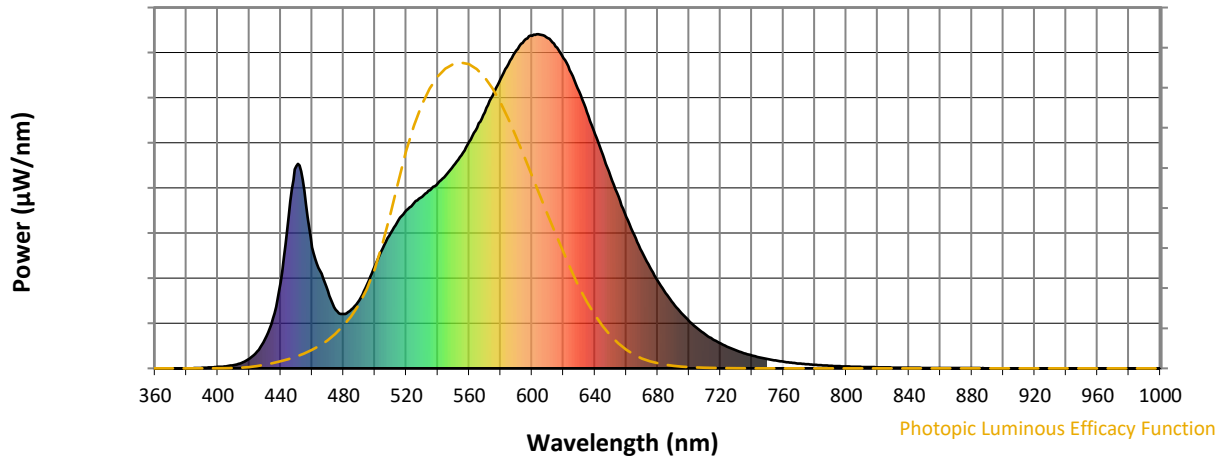
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

**Photopic Flux vs. Wavelength**

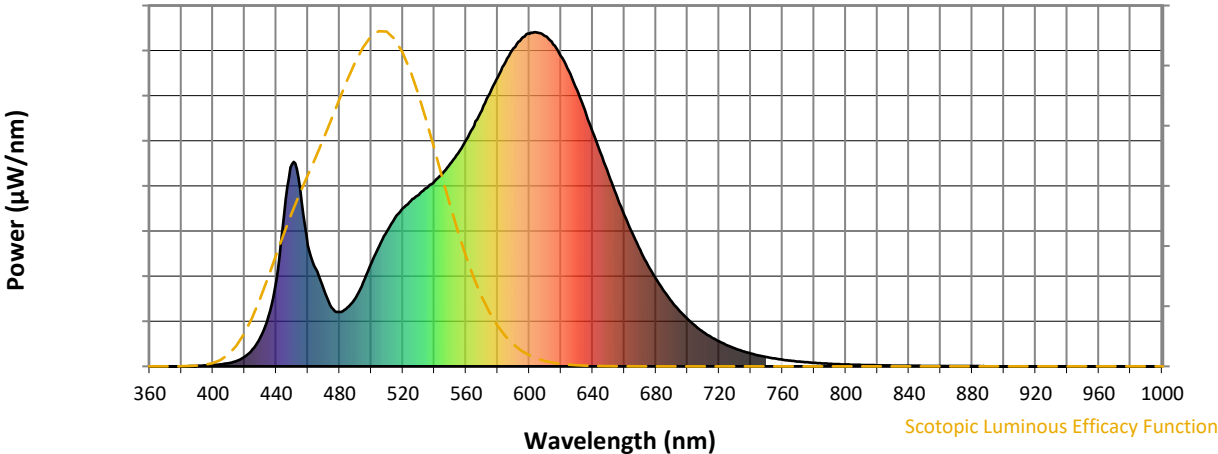


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

Scotopic Flux vs. Wavelength

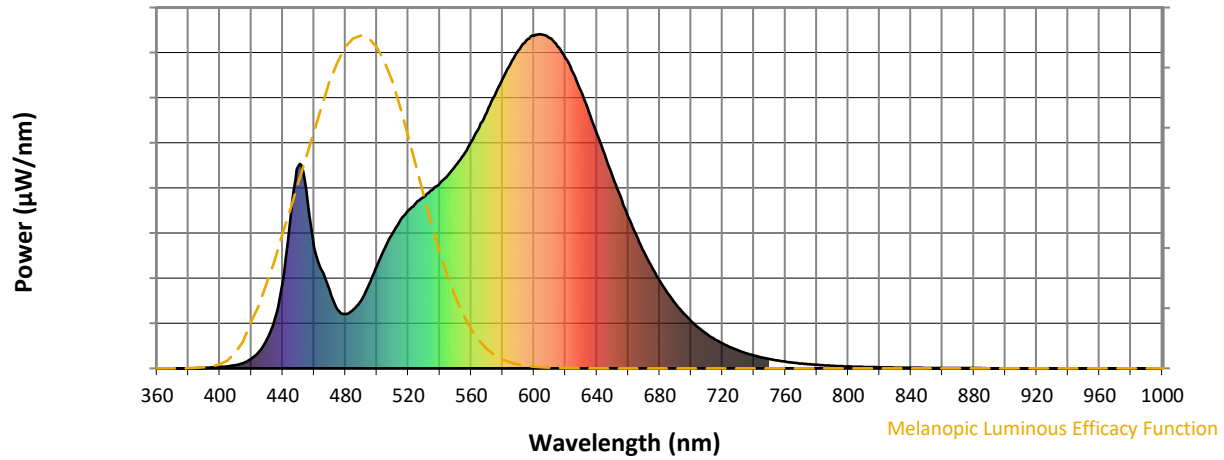


Scotopic Lumens: NR S/P: 1.35

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

Melanopic Flux vs. Wavelength



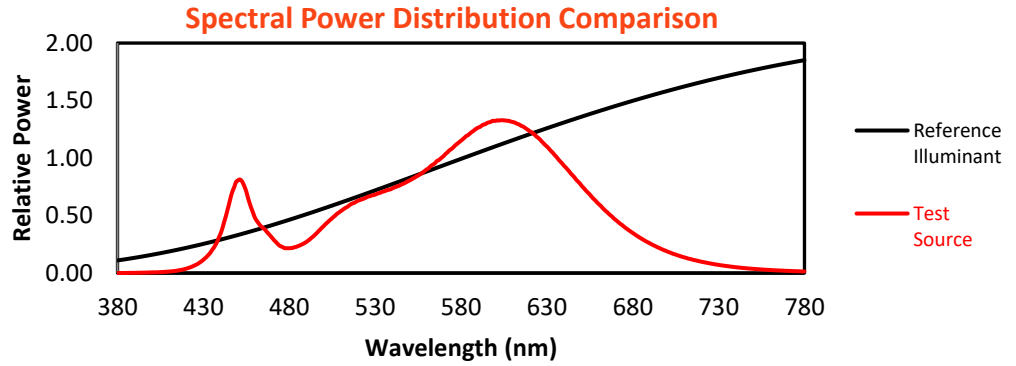
Melanopic Lumens: NR

M/P: 2.61

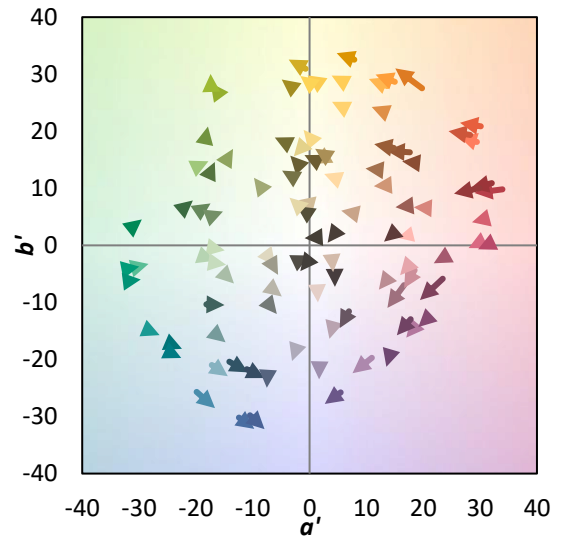
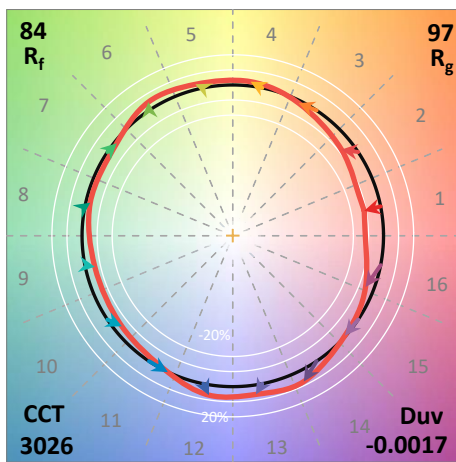
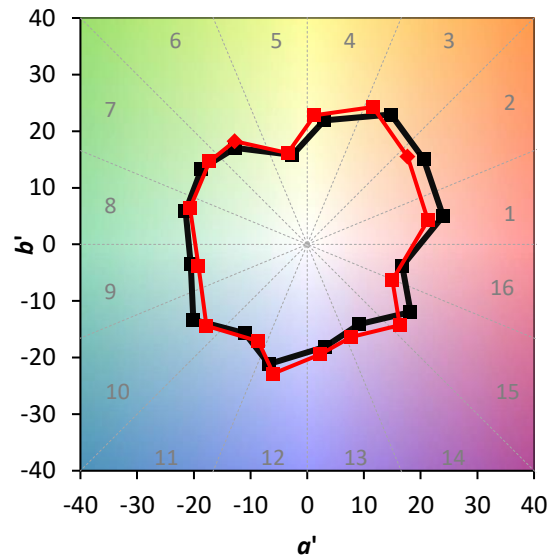
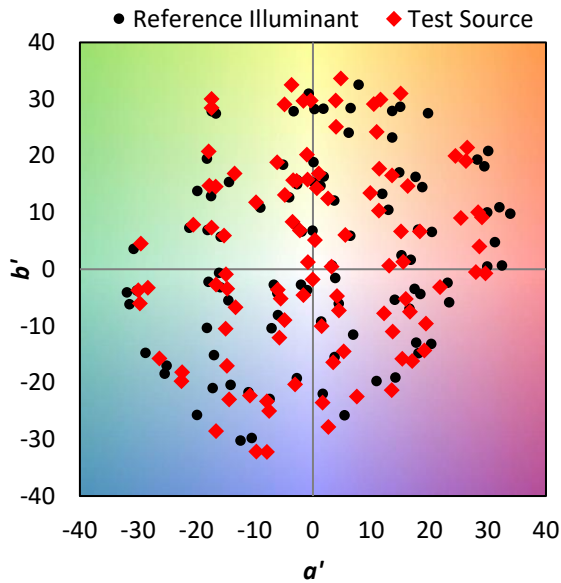
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

**Summary**

$R_f = 84$   
 $R_g = 97.4$   
 $CIE R_a = 82.7$   
 $R_9 = 7.5$

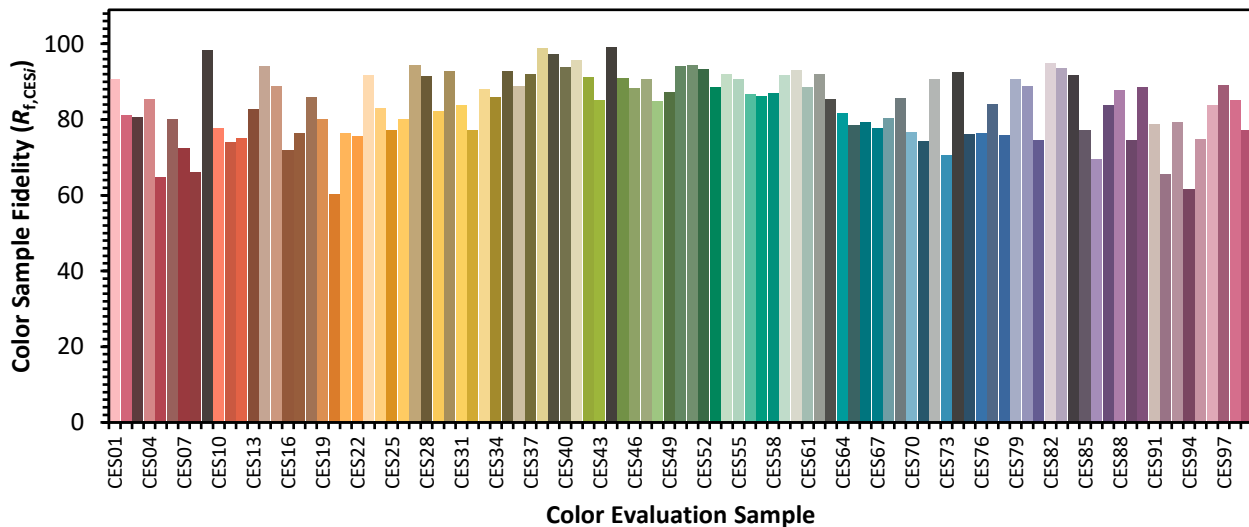


**Color Vector Graphics**

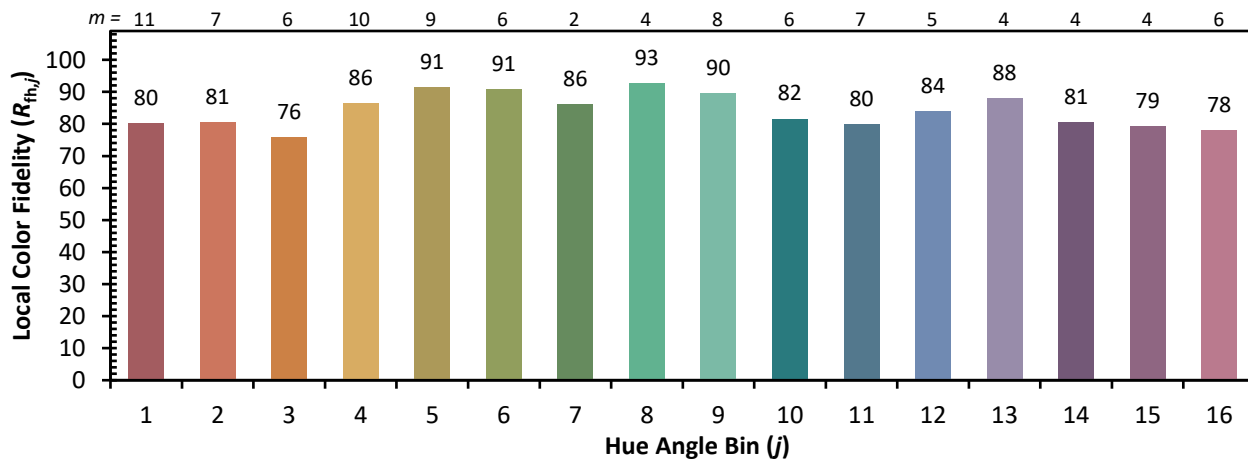
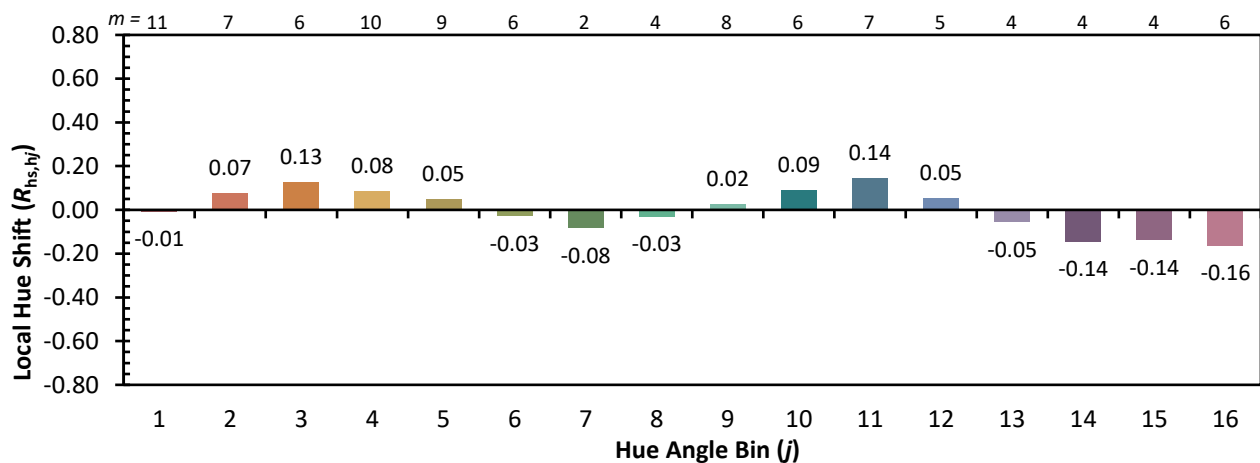
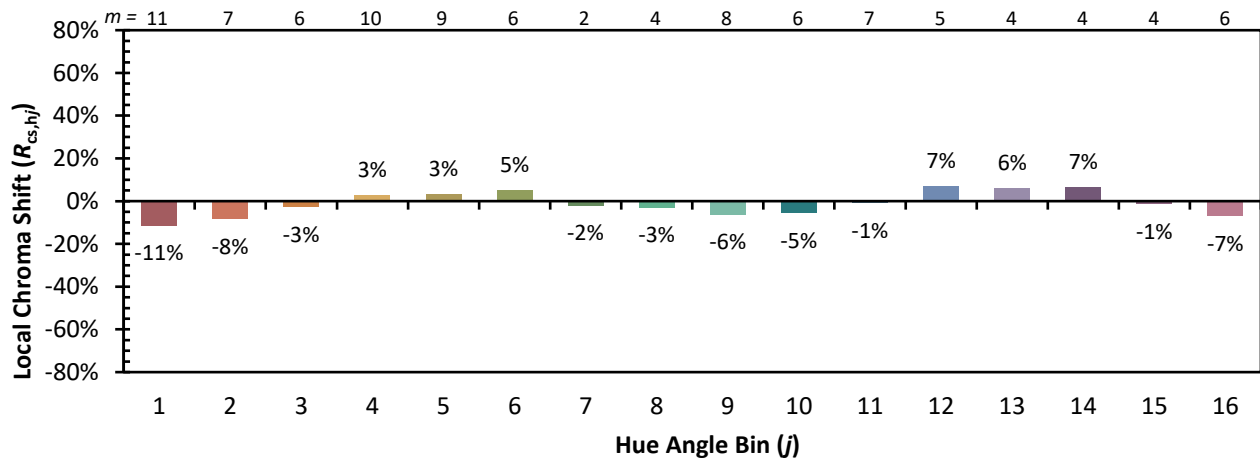


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

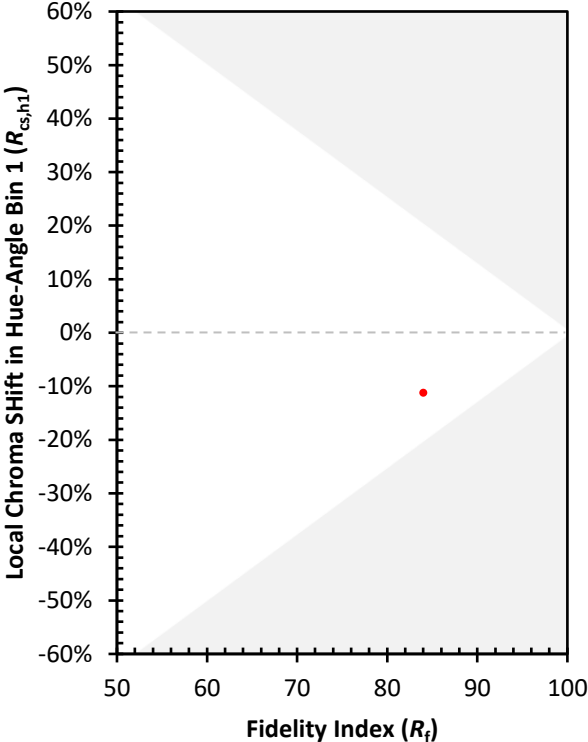
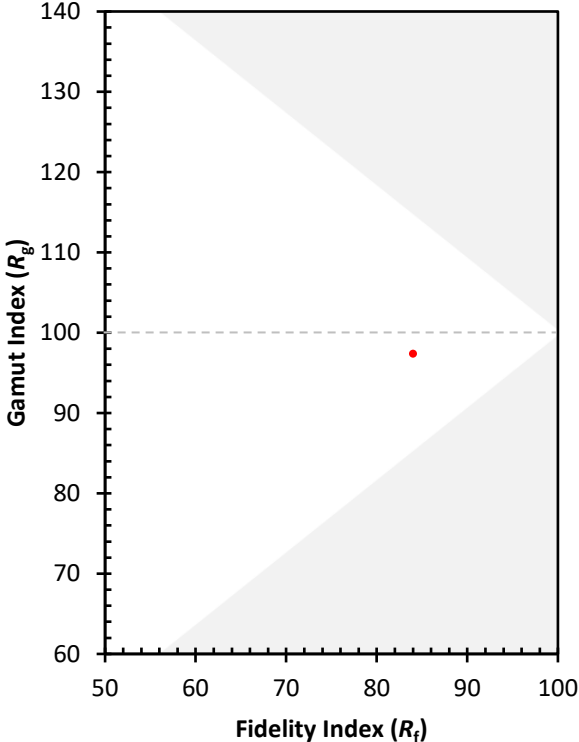
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 95
CES08 = 41	CES33 = 88	CES58 = 87	CES83 = 93
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 93	CES60 = 93	CES85 = 77
CES11 = 59	CES36 = 89	CES61 = 89	CES86 = 69
CES12 = 65	CES37 = 92	CES62 = 92	CES87 = 84
CES13 = 43	CES38 = 99	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 82	CES89 = 75
CES15 = 72	CES40 = 94	CES65 = 79	CES90 = 89
CES16 = 48	CES41 = 96	CES66 = 79	CES91 = 79
CES17 = 50	CES42 = 91	CES67 = 78	CES92 = 66
CES18 = 57	CES43 = 85	CES68 = 80	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 86	CES94 = 62
CES20 = 67	CES45 = 91	CES70 = 77	CES95 = 75
CES21 = 87	CES46 = 88	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 91	CES72 = 91	CES97 = 89
CES23 = 92	CES48 = 85	CES73 = 71	CES98 = 85
CES24 = 91	CES49 = 87	CES74 = 93	CES99 = 77
CES25 = 72	CES50 = 94	CES75 = 76	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)