Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: METALUX

Report Number: P1433712

Luminaire Tested: EHBR1-12-UNV-TASM-L940-UPL36

Issue Date: 3/20/2026

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1433712
	REPORT IS A COMBINATION OF REPORTS P1431649 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-12-UNV-TASM-L940-UPL36
Description:	Elevate Round Highbay at, 12000 lumens, 4000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14884.8 lumens
Efficiency:	N/A
Efficacy:	159.9 lumens/watt
Spacing Criteria (0/90/45):	0.99 / 0.84 / 0.9
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Semi-Direct

Input Watts (W):	93.1
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:	24 FT

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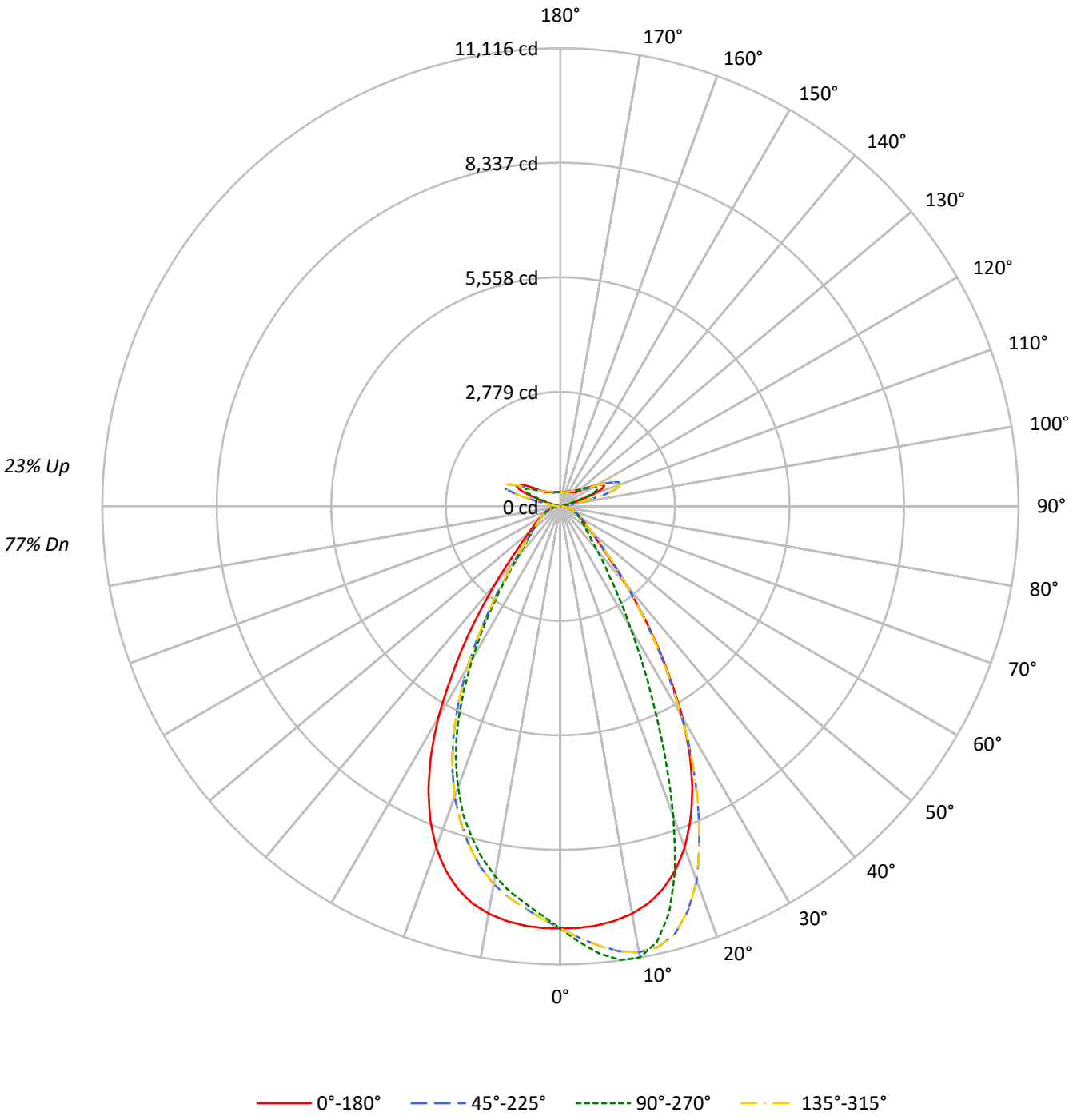
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	106	103	99	96	101	98	95	93	90	88	86	82	81	79	75	74	73	69
2	99	93	88	83	94	89	85	81	82	79	75	76	73	70	70	68	66	63
3	92	84	78	73	88	81	76	71	75	71	67	70	66	63	65	62	60	57
4	86	77	71	66	83	75	69	64	69	64	61	65	61	57	60	57	54	52
5	81	71	64	59	78	69	62	58	64	59	55	60	56	52	56	53	50	48
6	76	66	59	54	73	64	57	53	60	54	50	56	52	48	53	49	46	44
7	72	61	54	49	69	59	53	48	56	50	46	52	48	45	49	46	43	41
8	67	57	50	45	65	55	49	44	52	47	43	49	45	41	46	43	40	38
9	64	53	46	42	61	51	45	41	49	43	40	46	42	38	44	40	37	35
10	60	50	43	39	58	48	42	38	46	41	37	44	39	36	41	38	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	48108	48108	48108	48108
5°	47815	51010	47815	45333
10°	47227	52319	47227	42905
15°	45833	48621	45833	39633
20°	42865	38987	42865	35301
25°	37939	27013	37939	29584
30°	30805	17574	30805	22135
35°	22094	11381	22094	14736
40°	14285	7844	14285	9293
45°	9063	6077	9063	6621
50°	6731	5163	6731	5515
55°	5495	4704	5495	4868
60°	4758	4481	4758	4508
65°	4338	4321	4338	4303
70°	4111	4234	4111	4179
75°	3844	4095	3844	3973
80°	3378	3868	3378	3614
85°	2185	2761	2185	2633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 12743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.1	6.5
10°-20°	2650.0	17.8
20°-30°	3107.9	20.9
30°-40°	2161.4	14.5
40°-50°	1074.1	7.2
50°-60°	642.4	4.3
60°-70°	452.2	3.0
70°-80°	291.3	2.0
80°-90°	98.6	0.7
90°-100°	90.8	0.6
100°-110°	598.6	4.0
110°-120°	1106.9	7.4
120°-130°	657.0	4.4
130°-140°	396.1	2.7
140°-150°	273.0	1.8
150°-160°	177.0	1.2
160°-170°	100.5	0.7
170°-180°	33.1	0.2
0°-30°	6732.0	45.2
0°-40°	8893.4	59.7
0°-60°	10609.9	71.3
0°-90°	11451.9	76.9
90°-120°	1796.3	12.1
90°-150°	3122.4	21.0
90°-180°	3433.0	23.1
0°-180°	14884.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10244	10244	10244	10244	10244	
5°	10209	10891	10209	9679	10209	969
15°	9616	10200	9616	8315	9616	2687
25°	7576	5394	7576	5908	7576	3430
35°	4055	2089	4055	2704	4055	2531
45°	1466	983	1466	1071	1466	1200
55°	743	636	743	658	743	679
65°	453	451	453	449	453	455
75°	271	288	271	280	271	284
85°	75	95	75	90	75	84
90°	25	26	25	25	25	15
95°	48	43	48	42	48	51
105°	275	137	275	208	275	371
115°	1178	1004	1178	957	1178	1074
125°	753	787	753	690	753	694
135°	474	547	474	504	474	376
145°	427	446	427	416	427	268
155°	378	394	378	366	378	177
165°	352	361	352	345	352	100
175°	348	351	348	342	348	33
180°	346	346	346	346	346	

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TEST NUMBER: P1433712
CATALOG NUMBER: EHBR1-12-UNV-TASM-L940-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	10244.2	10244.2	10244.2	10244.2	10244.2	10244.2	10244.2	10244.2	10244.2	10244.2	10244.2
2.5°	10238.2	10370.6	10477.8	10548.5	10583.4	10548.5	10477.8	10370.6	10238.2	10106.7	10016.2
5°	10209.3	10474.3	10698.9	10845.9	10891.4	10845.9	10698.9	10474.3	10209.3	9958.7	9792.6
7.5°	10139.9	10552.9	10886.6	11058.1	11100.0	11058.1	10886.6	10552.9	10139.9	9785.3	9575.4
10°	10034.0	10602.5	10988.0	11110.9	11115.9	11110.9	10988.0	10602.5	10034.0	9556.4	9308.7
12.5°	9865.2	10584.8	10954.0	10913.7	10822.0	10913.7	10954.0	10584.8	9865.2	9276.6	8964.3
15°	9615.5	10480.1	10738.6	10410.4	10200.4	10410.4	10738.6	10480.1	9615.5	8899.0	8536.7
17.5°	9263.5	10284.2	10289.2	9639.6	9243.6	9639.6	10289.2	10284.2	9263.5	8437.2	8038.2
20°	8810.0	9969.9	9670.2	8482.4	8013.0	8482.4	9670.2	9969.9	8810.0	7891.2	7499.8
22.5°	8241.4	9546.1	8808.3	7318.1	6677.8	7318.1	8808.3	9546.1	8241.4	7256.4	6848.9
25°	7576.4	9026.9	7881.1	6049.5	5394.4	6049.5	7881.1	9026.9	7576.4	6499.9	6131.4
27.5°	6794.2	8368.8	6893.7	4943.4	4339.0	4943.4	6893.7	8368.8	6794.2	5718.8	5342.5
30°	5925.4	7525.1	5866.2	3936.8	3380.3	3936.8	5866.2	7525.1	5925.4	4841.4	4504.4
32.5°	4952.5	6698.2	4879.4	3154.4	2683.0	3154.4	4879.4	6698.2	4952.5	4004.0	3651.9
35°	4055.1	5663.6	3989.6	2478.6	2088.8	2478.6	3989.6	5663.6	4055.1	3213.5	2867.8
37.5°	3182.4	4686.0	3180.4	1995.9	1694.3	1995.9	3180.4	4686.0	3182.4	2498.4	2217.7
40°	2475.9	3664.0	2491.9	1593.2	1359.6	1593.2	2491.9	3664.0	2475.9	1900.9	1721.4
42.5°	1876.0	2801.7	1958.6	1307.6	1154.9	1307.6	1958.6	2801.7	1876.0	1497.8	1363.3
45°	1466.4	2061.7	1529.5	1103.2	983.2	1103.2	1529.5	2061.7	1466.4	1206.2	1115.8
47.5°	1194.3	1593.4	1239.6	946.3	862.1	946.3	1239.6	1593.4	1194.3	1020.2	952.6
50°	1003.1	1222.7	1029.3	826.0	769.5	826.0	1029.3	1222.7	1003.1	873.6	828.5
52.5°	861.8	997.1	876.5	736.1	698.1	736.1	876.5	997.1	861.8	764.3	736.3
55°	742.6	838.3	762.3	661.9	635.7	661.9	762.3	838.3	742.6	680.2	659.4
57.5°	652.2	711.1	661.9	598.8	581.3	598.8	661.9	711.1	652.2	605.3	594.1
60°	572.0	615.8	584.1	543.6	538.7	543.6	584.1	615.8	572.0	544.5	537.3
62.5°	510.4	538.0	516.5	494.1	489.7	494.1	516.5	538.0	510.4	489.3	490.6
65°	452.8	478.5	461.6	449.5	451.0	449.5	461.6	478.5	452.8	443.0	445.0
67.5°	408.2	421.7	414.3	407.4	409.2	407.4	414.3	421.7	408.2	398.6	401.8
70°	360.7	375.2	367.6	368.7	371.5	368.7	367.6	375.2	360.7	357.8	360.4
72.5°	315.5	326.5	324.0	326.4	329.4	326.4	324.0	326.5	315.5	315.0	315.3
75°	270.8	279.3	280.4	283.7	288.5	283.7	280.4	279.3	270.8	267.9	271.4
77.5°	222.3	231.9	235.5	239.9	247.1	239.9	235.5	231.9	222.3	224.2	225.9
80°	177.7	182.1	190.1	193.4	203.5	193.4	190.1	182.1	177.7	174.4	176.9
82.5°	130.1	134.1	141.0	147.1	152.9	147.1	141.0	134.1	130.1	128.5	128.7
85°	75.1	81.2	85.9	93.2	94.9	93.2	85.9	81.2	75.1	76.9	75.1
87.5°	26.3	28.2	32.2	35.1	35.3	35.1	32.2	28.2	26.3	26.9	24.4
90°	25.0	42.3	72.9	39.2	26.3	39.2	72.9	42.3	25.0	44.0	68.8
92.5°	32.6	57.6	103.5	52.5	35.8	52.5	103.5	57.6	32.6	57.4	110.7
95°	48.0	70.9	132.0	58.3	43.4	58.3	132.0	70.9	48.0	76.4	154.6
97.5°	74.7	88.0	149.2	62.1	52.9	62.1	149.2	88.0	74.7	93.5	177.4
100°	99.5	99.5	273.1	71.6	60.6	71.6	273.1	99.5	99.5	114.7	276.5
102.5°	150.9	194.9	633.4	144.2	73.9	144.2	633.4	194.9	150.9	215.7	587.1
105°	274.7	446.4	1115.6	374.8	137.0	374.8	1115.6	446.4	274.7	452.0	1046.3
107.5°	520.6	833.3	1437.5	740.7	321.9	740.7	1437.5	833.3	520.6	800.7	1380.0
110°	833.1	1164.8	1569.1	1015.1	653.5	1015.1	1569.1	1164.8	833.1	1099.9	1446.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1084.6	1298.2	1532.8	1125.6	*905.0*	1125.6	1532.8	1298.2	1084.6	1214.2	1385.7
115°	1178.3	1279.2	1369.0	1121.8	*1004.1*	1121.8	1369.0	1279.2	1178.3	1185.6	1237.1
117.5°	1138.2	1170.6	1182.2	1053.2	*1009.8*	1053.2	1182.2	1170.6	1138.2	1065.8	1050.3
120°	1027.7	1014.4	995.7	952.2	*952.7*	952.2	995.7	1014.4	1027.7	930.5	877.0
122.5°	888.8	860.2	841.3	849.5	*874.5*	849.5	841.3	860.2	888.8	791.5	751.4
125°	753.4	724.9	732.8	761.8	*787.1*	761.8	732.8	724.9	753.4	671.7	662.0
127.5°	639.3	626.0	654.8	687.5	*708.9*	687.5	654.8	626.0	639.3	587.9	599.1
130°	557.6	561.1	599.5	626.8	*640.3*	626.8	599.5	561.1	557.6	532.8	559.3
132.5°	506.3	521.3	557.8	581.3	*589.1*	581.3	557.8	521.3	506.3	498.8	531.0
135°	474.1	496.6	529.4	544.8	*547.2*	544.8	529.4	496.6	474.1	476.3	506.3
137.5°	455.3	477.7	502.6	514.5	*510.9*	514.5	502.6	477.7	455.3	461.2	483.9
140°	444.0	466.5	477.8	491.7	*488.3*	491.7	477.8	466.5	444.0	447.8	465.0
142.5°	432.8	453.4	459.1	469.0	*465.4*	469.0	459.1	453.4	432.8	436.7	448.0
145°	427.3	442.3	438.3	451.8	*446.5*	451.8	438.3	442.3	427.3	429.0	434.9
147.5°	417.8	429.0	423.2	434.9	*429.6*	434.9	423.2	429.0	417.8	417.8	419.8
150°	406.5	414.1	406.3	419.8	*418.3*	419.8	406.3	414.1	406.5	404.6	406.7
152.5°	391.5	399.0	391.5	406.8	*405.2*	406.8	391.5	399.0	391.5	389.5	391.7
155°	378.4	382.3	378.4	393.9	*394.1*	393.9	378.4	382.3	378.4	378.2	378.6
157.5°	369.3	371.4	369.5	383.0	*383.2*	383.0	369.5	371.4	369.3	369.3	369.5
160°	360.5	364.4	362.6	374.2	*374.5*	374.2	362.6	364.4	360.5	362.2	362.4
162.5°	357.1	357.1	355.7	367.3	*367.6*	367.3	355.7	357.1	357.1	357.1	359.0
165°	352.1	353.9	350.5	358.5	*360.7*	358.5	350.5	353.9	352.1	353.7	353.7
167.5°	350.5	348.6	349.0	355.2	*357.6*	355.2	349.0	348.6	350.5	352.3	352.3
170°	346.9	347.0	345.5	351.8	*354.1*	351.8	345.5	347.0	346.9	348.8	350.5
172.5°	347.4	347.4	344.2	348.5	*352.8*	348.5	344.2	347.4	347.4	349.2	351.0
175°	347.8	346.1	344.5	347.1	*351.3*	347.1	344.5	346.1	347.8	347.6	347.6
177.5°	345.9	346.3	346.7	349.2	*355.3*	349.2	346.7	346.3	345.9	347.6	347.6
180°	346.3	346.3	346.3	346.3	*346.3*	346.3	346.3	346.3	346.3	346.3	346.3

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10244.2	10244.2	10244.2	10244.2	10244.2	10244.2
2.5°	9946.6	9940.1	9946.6	10016.2	10106.7	10238.2
5°	9715.6	9679.4	9715.6	9792.6	9958.7	10209.3
7.5°	9446.4	9425.5	9446.4	9575.4	9785.3	10139.9
10°	*9163.1*	*9115.7*	*9163.1*	*9308.7*	*9556.4*	*10034.0*
12.5°	8813.8	8751.0	8813.8	8964.3	9276.6	9865.2
15°	8369.7	8314.7	8369.7	8536.7	8899.0	9615.5
17.5°	7893.2	7843.2	7893.2	8038.2	8437.2	9263.5
20°	7294.6	7255.4	7294.6	7499.8	7891.2	8810.0
22.5°	6666.7	6630.0	6666.7	6848.9	7256.4	8241.4
25°	5927.9	5907.8	5927.9	6131.4	6499.9	7576.4
27.5°	5129.5	5095.5	5129.5	5342.5	5718.8	6794.2
30°	4313.9	4257.6	4313.9	4504.4	4841.4	5925.4
32.5°	3516.1	3475.6	3516.1	3651.9	4004.0	4952.5
35°	2745.0	2704.5	2745.0	2867.8	3213.5	4055.1
37.5°	2139.0	2067.3	2139.0	2217.7	2498.4	3182.4
40°	1622.3	1610.7	1622.3	1721.4	1900.9	2475.9
42.5°	1320.6	1289.3	1320.6	1363.3	1497.8	1876.0
45°	1083.6	1071.3	1083.6	1115.8	1206.2	1466.4
47.5°	931.8	937.2	931.8	952.6	1020.2	1194.3
50°	818.7	822.0	818.7	828.5	873.6	1003.1
52.5°	735.3	732.5	735.3	736.3	764.3	861.8
55°	661.6	657.9	661.6	659.4	680.2	742.6
57.5°	597.0	599.7	597.0	594.1	605.3	652.2
60°	539.4	541.9	539.4	537.3	544.5	572.0
62.5°	490.8	492.4	490.8	490.6	489.3	510.4
65°	447.4	449.1	447.4	445.0	443.0	452.8
67.5°	405.9	405.9	405.9	401.8	398.6	408.2
70°	366.9	366.7	366.9	360.4	357.8	360.7
72.5°	320.0	324.7	320.0	315.3	315.0	315.5
75°	274.5	279.9	274.5	271.4	267.9	270.8
77.5°	228.4	236.6	228.4	225.9	224.2	222.3
80°	181.1	190.1	181.1	176.9	174.4	177.7
82.5°	133.9	140.6	133.9	128.7	128.5	130.1
85°	79.7	90.5	79.7	75.1	76.9	75.1
87.5°	25.5	32.7	25.5	24.4	26.9	26.3
90°	40.2	25.0	40.2	68.8	44.0	25.0
92.5°	61.2	36.4	61.2	110.7	57.4	32.6
95°	70.7	42.1	70.7	154.6	76.4	48.0
97.5°	78.4	53.8	78.4	177.4	93.5	74.7
100°	91.7	70.9	91.7	276.5	114.7	99.5
102.5°	194.5	120.5	194.5	587.1	215.7	150.9
105°	409.9	208.0	409.9	1046.3	452.0	274.7
107.5°	733.9	360.5	733.9	1380.0	800.7	520.6
110°	973.9	673.0	973.9	1446.8	1099.9	833.1

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1433712
CATALOG NUMBER: EHBR1-12-UNV-TASM-L940-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1046.3	909.4	1046.3	1385.7	1214.2	1084.6
115°	1006.4	957.0	1006.4	1237.1	1185.6	1178.3
117.5°	918.7	924.6	918.7	1050.3	1065.8	1138.2
120°	817.7	856.0	817.7	877.0	930.5	1027.7
122.5°	724.5	770.2	724.5	751.4	791.5	888.8
125°	644.4	690.3	644.4	662.0	671.7	753.4
127.5°	589.2	619.9	589.2	599.1	587.9	639.3
130°	545.6	572.2	545.6	559.3	532.8	557.6
132.5°	515.3	532.4	515.3	531.0	498.8	506.3
135°	488.7	503.8	488.7	506.3	476.3	474.1
137.5°	466.1	479.2	466.1	483.9	461.2	455.3
140°	445.5	456.8	445.5	465.0	447.8	444.0
142.5°	424.8	432.5	424.8	448.0	436.7	432.8
145°	409.9	415.7	409.9	434.9	429.0	427.3
147.5°	397.0	400.8	397.0	419.8	417.8	417.8
150°	384.0	387.8	384.0	406.7	404.6	406.5
152.5°	370.9	374.9	370.9	391.7	389.5	391.5
155°	361.7	365.7	361.7	378.6	378.2	378.4
157.5°	356.4	358.6	356.4	369.5	369.3	369.3
160°	351.2	353.3	351.2	362.4	362.2	360.5
162.5°	345.9	348.1	345.9	359.0	357.1	357.1
165°	344.4	344.6	344.4	353.7	353.7	352.1
167.5°	342.7	344.6	342.7	352.3	352.3	350.5
170°	342.8	343.0	342.8	350.5	348.8	346.9
172.5°	343.2	343.4	343.2	351.0	349.2	347.4
175°	341.7	341.9	341.7	347.6	347.6	347.8
177.5°	343.8	344.0	343.8	347.6	347.6	345.9
180°	346.3	346.3	346.3	346.3	346.3	346.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1433712
CATALOG NUMBER: EHBR1-12-UNV-TASM-L940-UPL36

CIE UGR TABLE:

Reflectances:											
	Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.79	13.71	13.51	14.42	15.26	12.11	13.03	12.83	13.74	14.58
	3H	14.33	15.15	15.06	15.87	16.74	13.95	14.77	14.68	15.49	16.36
	4H	14.96	15.73	15.71	16.46	17.35	14.73	15.49	15.47	16.23	17.11
	6H	15.44	16.14	16.20	16.88	17.78	15.36	16.07	16.12	16.81	17.71
	8H	15.58	16.25	16.35	17.01	17.91	15.58	16.25	16.35	17.01	17.91
	12H	15.65	16.29	16.42	17.04	17.96	15.70	16.34	16.48	17.09	18.01
4H	2H	13.19	13.96	13.94	14.69	15.58	12.67	13.44	13.42	14.17	15.06
	3H	14.98	15.62	15.74	16.39	17.28	14.72	15.36	15.48	16.12	17.02
	4H	15.75	16.33	16.53	17.10	18.03	15.62	16.20	16.40	16.97	17.90
	6H	16.36	16.86	17.15	17.65	18.59	16.39	16.88	17.18	17.68	18.62
	8H	16.56	17.02	17.35	17.81	18.76	16.66	17.12	17.45	17.91	18.86
	12H	16.65	17.07	17.47	17.88	18.83	16.82	17.23	17.63	18.04	19.00
8H	4H	15.99	16.46	16.79	17.25	18.19	15.90	16.36	16.69	17.15	18.10
	6H	16.73	17.11	17.56	17.94	18.89	16.80	17.17	17.62	18.01	18.96
	8H	17.01	17.34	17.84	18.17	19.14	17.15	17.49	17.99	18.32	19.29
	12H	17.17	17.46	18.01	18.28	19.31	17.40	17.69	18.23	18.51	19.53
12H	4H	16.00	16.41	16.81	17.22	18.17	15.90	16.31	16.71	17.12	18.08
	6H	16.78	17.11	17.62	17.95	18.91	16.85	17.18	17.68	18.01	18.98
	8H	17.09	17.38	17.92	18.20	19.23	17.24	17.53	18.08	18.35	19.38

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-6

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L935-N

Data in this report applies to families of products including EHBR-60-L935-N

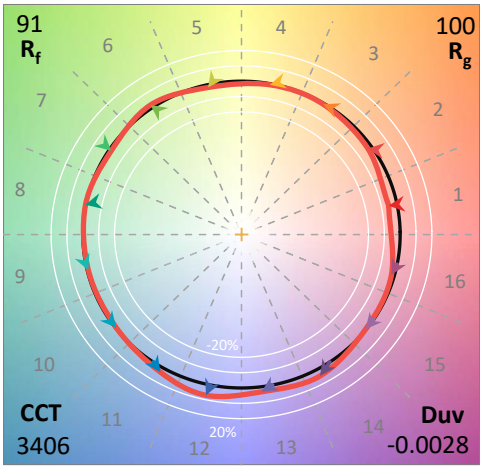
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-6
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/05/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**EHBR-60-L935-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	3406	CRI (Ra):	94.6		
CIE u':	0.2394	R1:	96.6	R9:	63.8
CIE v':	0.5094	R2:	98.4	R10:	94.7
Duv:	-0.0028	R3:	98.1	R11:	96.6
CIE x:	0.4076	R4:	95.8	R12:	80.9
CIE y:	0.3856	R5:	96.2	R13:	97.4
CIE z:	0.2068	R6:	95.4	R14:	98.3
Peak Wavelength (nm):	630	R7:	91.8	R15:	93.1
Dominant Wavelength (nm):	582	R8:	84.4		
Purity:	38.0517				
Rf:	91.3				
Rg:	100				



Test Conditions

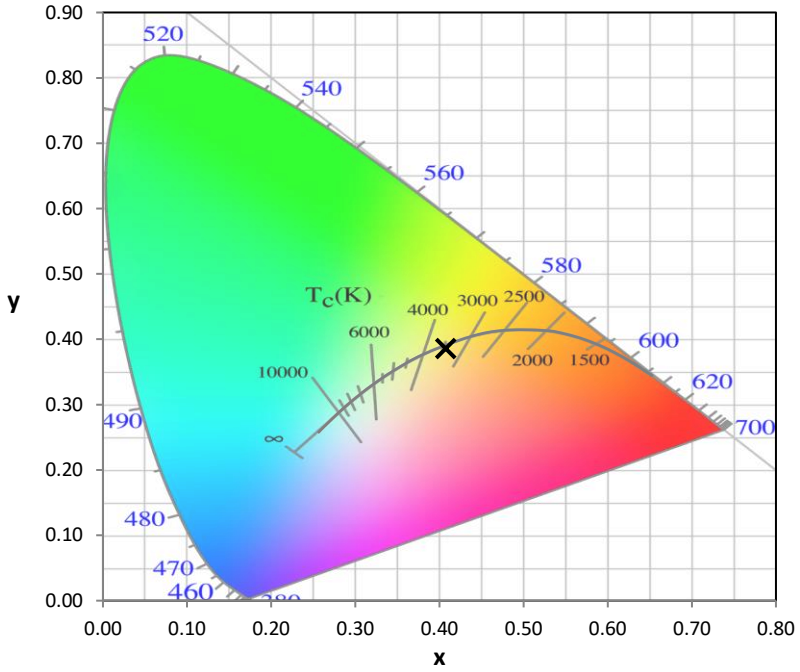
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

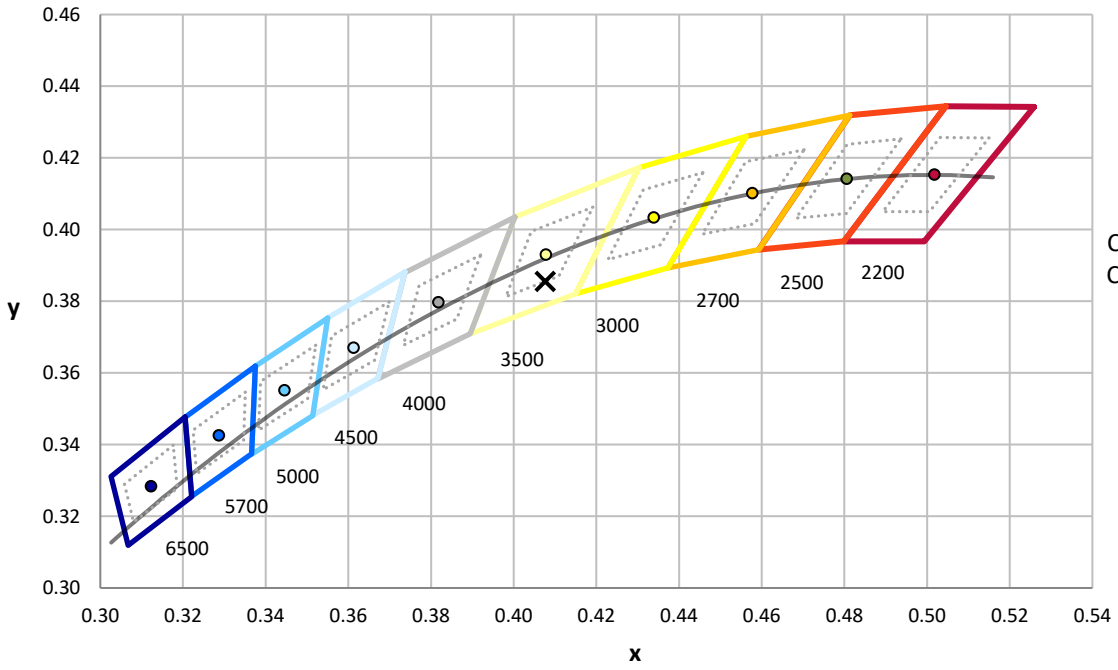
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2506-472-6

CIE 1931 Chromaticity Diagram



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

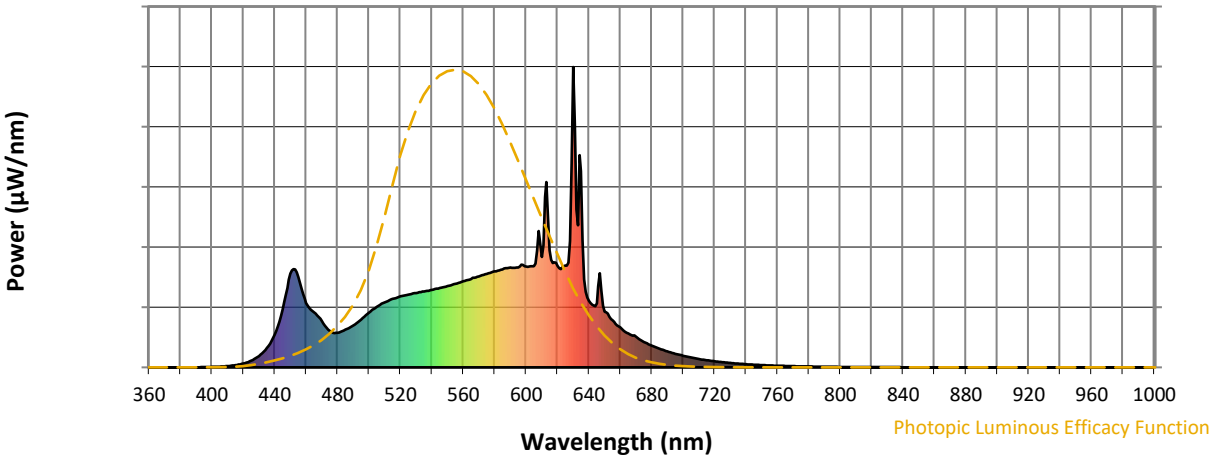


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

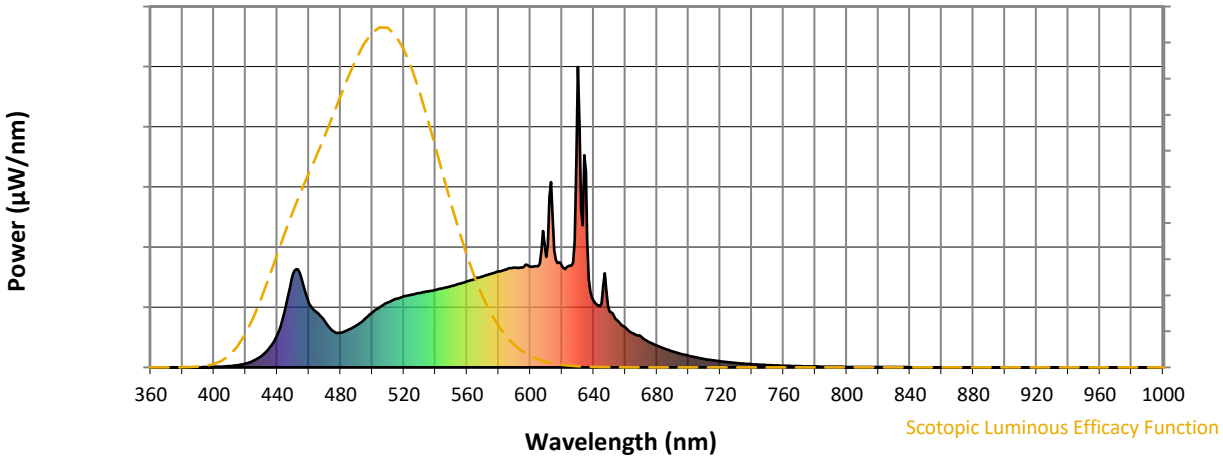


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Scotopic Flux vs. Wavelength

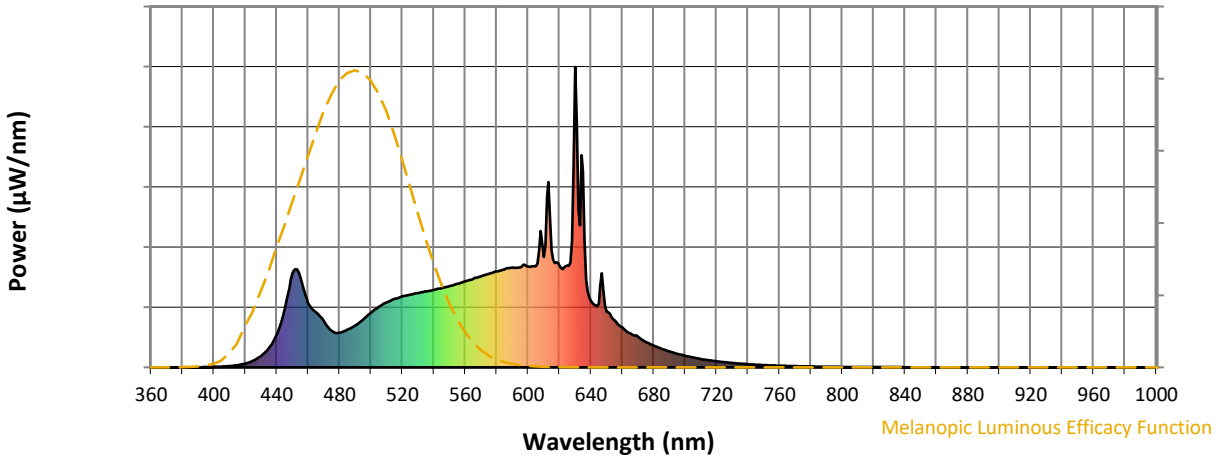


Scotopic Lumens: NR **S/P: 1.62**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.3**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

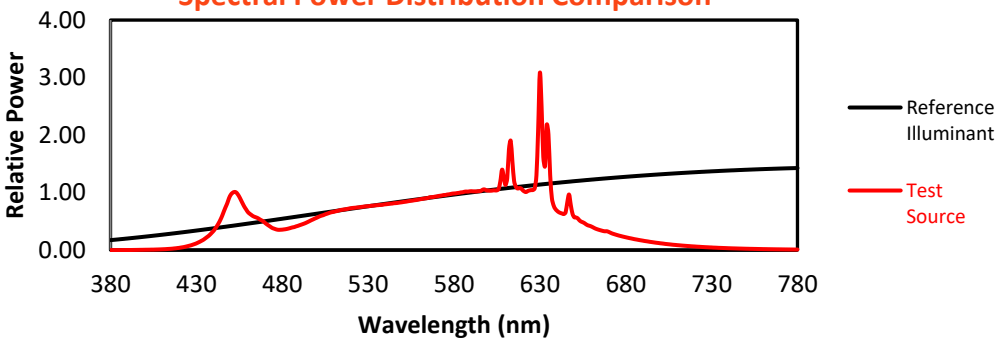
REPORT NUMBER: SP1-2506-472-6

TM-30-18

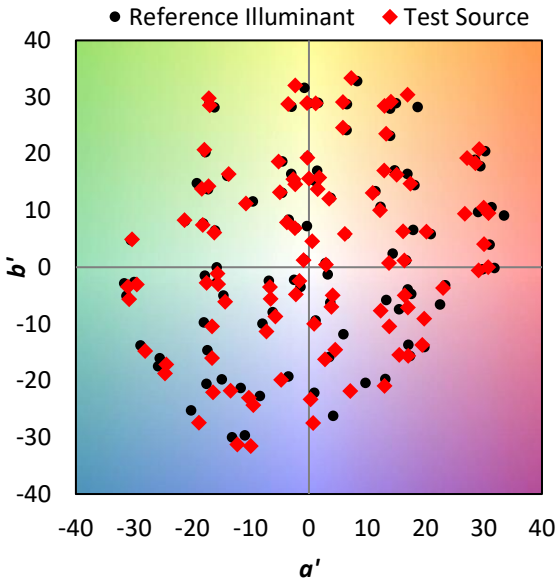
Summary

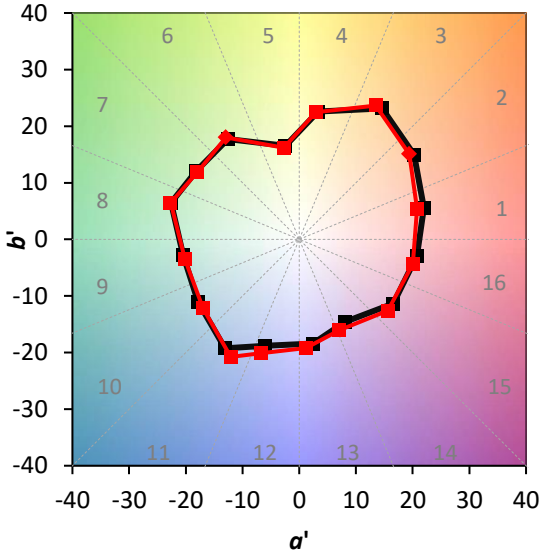
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

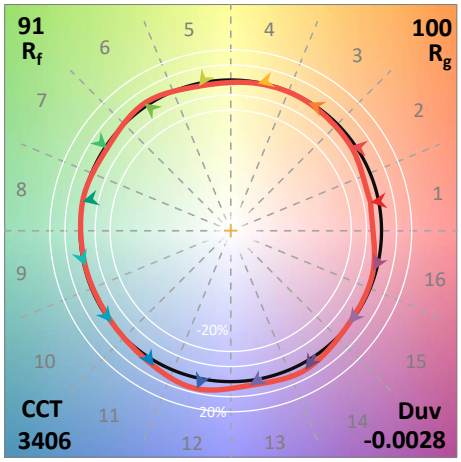
Spectral Power Distribution Comparison

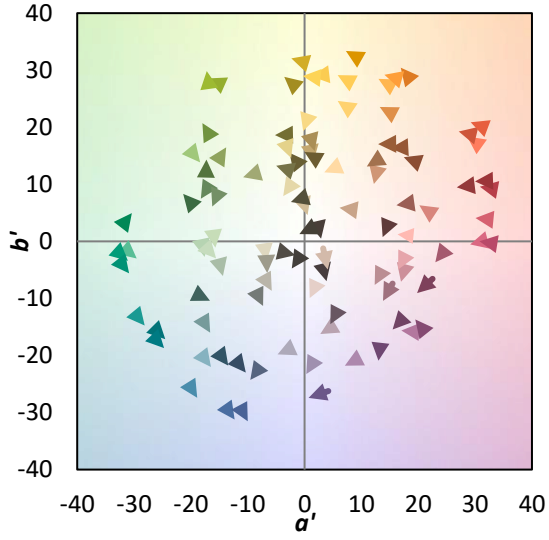


Color Vector Graphics







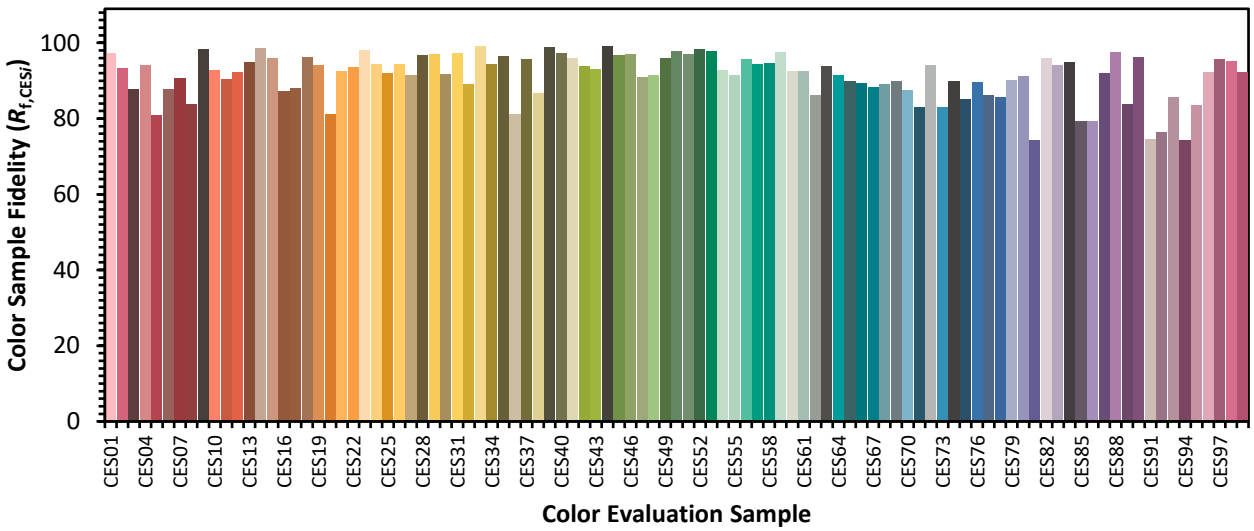


REPORT NUMBER: SP1-2506-472-6

TM-30-18

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

CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 90
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 74
CES07 = 43	CES32 = 89	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 95	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 97	CES60 = 92	CES85 = 79
CES11 = 58	CES36 = 81	CES61 = 93	CES86 = 79
CES12 = 64	CES37 = 96	CES62 = 86	CES87 = 92
CES13 = 44	CES38 = 87	CES63 = 94	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 84
CES15 = 72	CES40 = 97	CES65 = 90	CES90 = 96
CES16 = 48	CES41 = 96	CES66 = 89	CES91 = 75
CES17 = 49	CES42 = 94	CES67 = 88	CES92 = 76
CES18 = 56	CES43 = 93	CES68 = 89	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 90	CES94 = 74
CES20 = 67	CES45 = 97	CES70 = 88	CES95 = 83
CES21 = 86	CES46 = 97	CES71 = 83	CES96 = 92
CES22 = 78	CES47 = 91	CES72 = 94	CES97 = 96
CES23 = 91	CES48 = 91	CES73 = 83	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 90	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 85	



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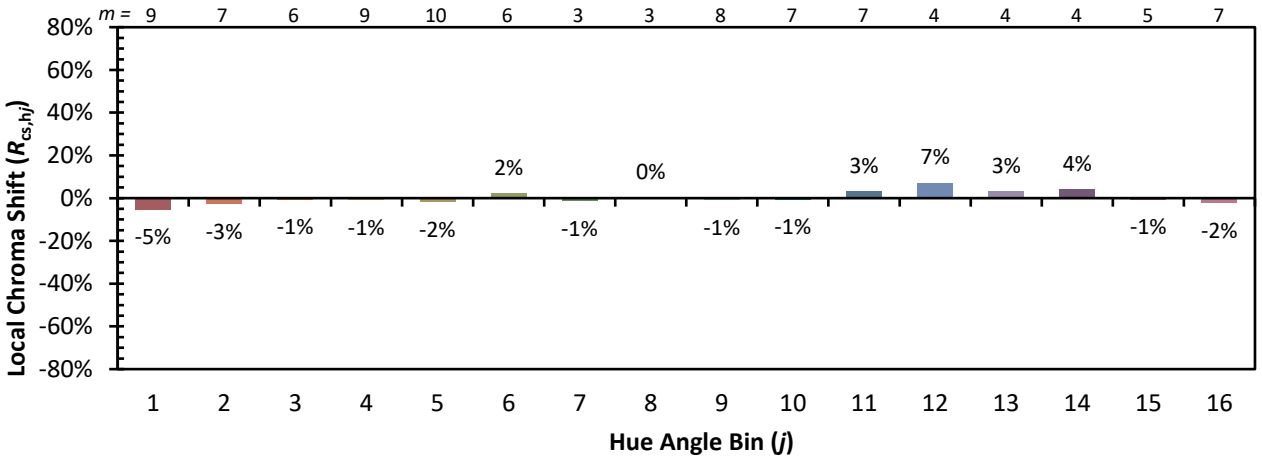
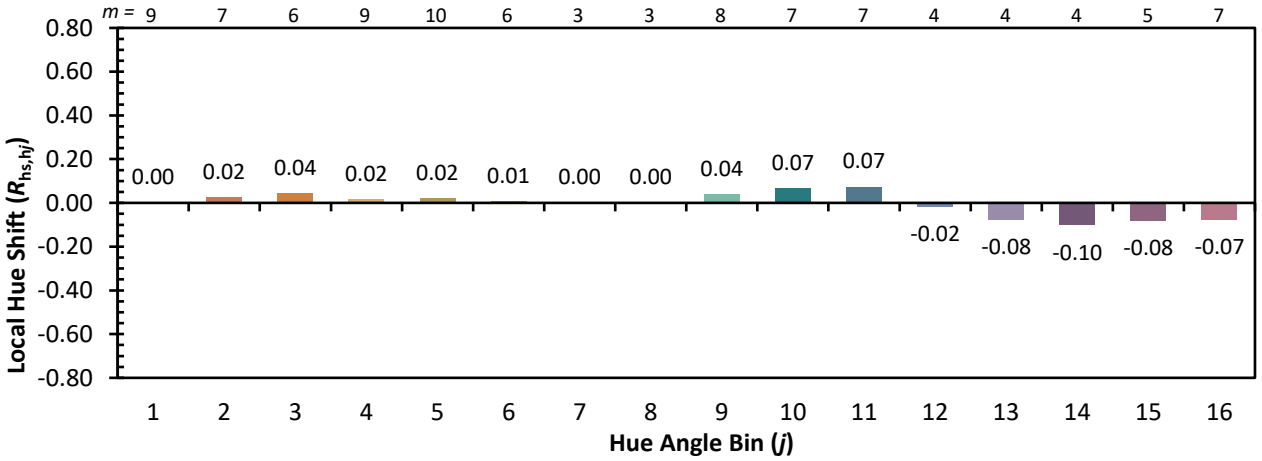
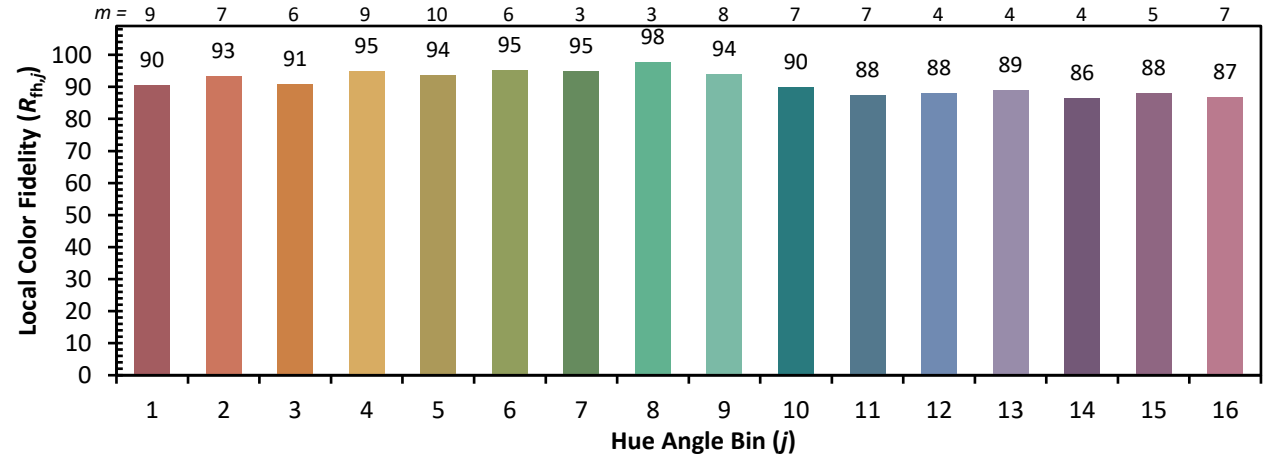
Color Rendition by Hue-Angle Bin







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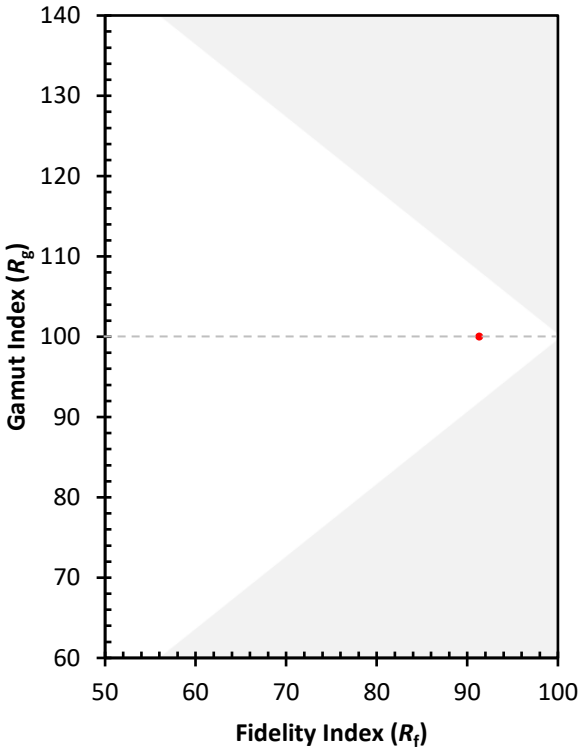
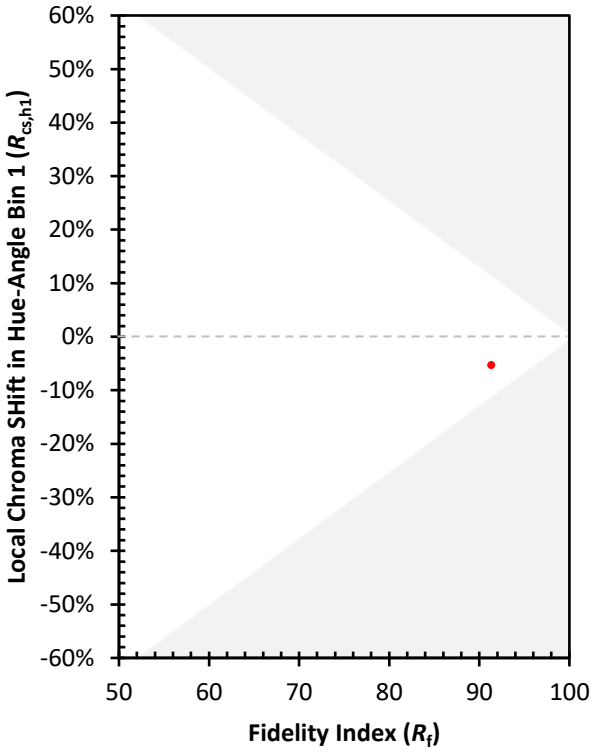
Measure Comparisons





(END OF REPORT)