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: P1433551

Luminaire Tested: EHBR1-36-UNV-TASM-L935-UPL30

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:	P1433551
	REPORT IS A COMBINATION OF REPORTS P1431776 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-TASM-L935-UPL30
Description:	Elevate Round Highbay at, 36000 lumens, 3500K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35456.4 lumens
Efficiency:	N/A
Efficacy:	166.2 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:	Direct

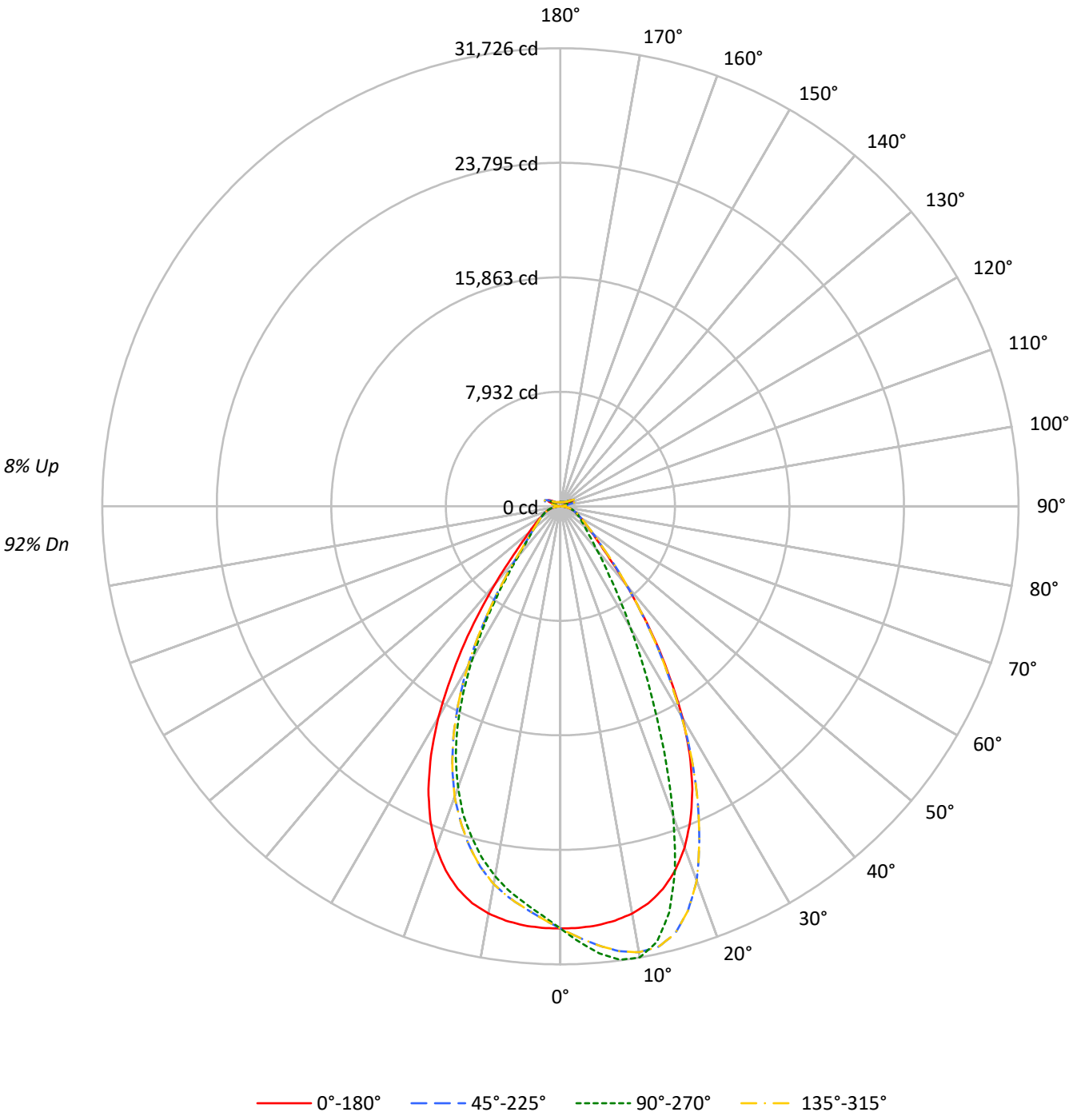
Input Watts (W):	213.4
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

Luminous Intensity Polar Plot



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

Scaled Data Report

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	110	106	103	101	107	104	101	98	98	96	94	93	91	90	88	87	86	83
2	103	97	92	88	100	95	90	86	90	86	83	86	83	80	82	79	77	75
3	97	89	83	78	94	87	81	77	83	78	75	79	75	72	76	73	70	68
4	91	82	75	70	88	80	74	69	77	72	67	74	69	66	71	67	64	62
5	85	75	69	63	83	74	68	63	71	66	62	69	64	60	66	62	59	57
6	80	70	63	58	78	69	62	58	66	61	57	64	59	56	62	58	55	53
7	76	65	58	53	74	64	58	53	62	56	52	60	55	51	58	54	51	49
8	72	61	54	49	70	60	54	49	58	52	48	56	51	48	55	50	47	45
9	68	57	50	46	66	56	50	46	55	49	45	53	48	45	52	47	44	42
10	64	54	47	43	63	53	47	43	51	46	42	50	45	42	49	44	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	137303	137303	137303	137303
5°	136468	145585	136468	129385
10°	134790	149323	134790	122452
15°	130810	138768	130810	113113
20°	122340	111273	122340	100752
25°	108281	77096	108281	84435
30°	87920	50157	87920	63174
35°	63059	32482	63059	42057
40°	40770	22389	40770	26523
45°	25868	17343	25868	18898
50°	19210	14737	19210	15741
55°	15684	13425	15684	13895
60°	13581	12788	13581	12866
65°	12380	12333	12380	12280
70°	11734	12084	11734	11928
75°	10973	11690	10973	11340
80°	9639	11037	9639	10318
85°	6235	7879	6235	7512

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 36369 cd/sqm

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

Scaled Data Report

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2780.1	7.8
10°-20°	7563.3	21.3
20°-30°	8870.2	25.0
30°-40°	6168.7	17.4
40°-50°	3065.6	8.6
50°-60°	1833.5	5.2
60°-70°	1290.5	3.6
70°-80°	831.3	2.3
80°-90°	268.9	0.8
90°-100°	74.3	0.2
100°-110°	483.7	1.4
110°-120°	893.3	2.5
120°-130°	531.1	1.5
130°-140°	321.5	0.9
140°-150°	222.7	0.6
150°-160°	145.7	0.4
160°-170°	84.0	0.2
170°-180°	28.0	0.1
0°-30°	19213.6	54.2
0°-40°	25382.3	71.6
0°-60°	30281.4	85.4
0°-90°	32672.1	92.1
90°-120°	1451.3	4.1
90°-150°	2526.6	7.1
90°-180°	2784.0	7.9
0°-180°	35456.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	29238	29238	29238	29238	29238	
5°	29138	31085	29138	27626	29138	2765
15°	27443	29113	27443	23730	27443	7669
25°	21624	15396	21624	16862	21624	9790
35°	11574	5962	11574	7719	11574	7225
45°	4185	2806	4185	3058	4185	3425
55°	2120	1814	2120	1878	2120	1938
65°	1292	1287	1292	1282	1292	1298
75°	773	824	773	799	773	811
85°	214	271	214	258	214	238
90°	20	24	20	20	20	20
95°	40	38	40	34	40	42
105°	222	114	222	168	222	300
115°	951	813	951	772	951	866
125°	609	638	609	558	609	561
135°	385	445	385	408	385	305
145°	349	365	349	339	349	219
155°	311	325	311	302	311	145
165°	294	304	294	289	294	84
175°	294	300	294	289	294	28
180°	294	294	294	294	294	

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

Scaled Data Report

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	29237.8	29237.8	29237.8	29237.8	*29237.8*	29237.8	29237.8	29237.8	29237.8	29237.8	29237.8
2.5°	29220.7	29598.5	29904.4	30106.2	*30205.9*	30106.2	29904.4	29598.5	29220.7	28845.1	28586.9
5°	29138.0	29894.6	30535.4	30954.9	*31084.8*	30954.9	30535.4	29894.6	29138.0	28423.1	27948.8
7.5°	28940.0	30118.8	31071.1	31560.7	*31680.2*	31560.7	31071.1	30118.8	28940.0	27927.9	27328.7
10°	*28637.9*	*30260.2*	*31360.6*	*31711.4*	*31725.7*	*31711.4*	*31360.6*	*30260.2*	*28637.9*	*27274.5*	*26567.7*
12.5°	28156.0	30209.8	31263.5	31148.4	*30886.8*	31148.4	31263.5	30209.8	28156.0	26476.2	25584.7
15°	27443.3	29911.0	30648.9	29711.9	*29112.7*	29711.9	30648.9	29911.0	27443.3	25398.4	24364.3
17.5°	26438.9	29351.8	29366.0	27512.4	*26381.9*	27512.4	29366.0	29351.8	26438.9	24080.3	22941.6
20°	25144.5	28454.9	27599.6	24209.2	*22869.8*	24209.2	27599.6	28454.9	25144.5	22522.2	21404.9
22.5°	23521.6	27245.4	25139.5	20886.2	*19058.9*	20886.2	25139.5	27245.4	23521.6	20710.2	19547.4
25°	21623.6	25763.4	22493.1	17265.6	*15396.0*	17265.6	22493.1	25763.4	21623.6	18551.2	17499.7
27.5°	19391.1	23885.1	19675.2	14108.7	*12383.9*	14108.7	19675.2	23885.1	19391.1	16322.0	15248.0
30°	16911.4	21477.2	16742.5	11235.9	*9647.6*	11235.9	16742.5	21477.2	16911.4	13817.6	12855.9
32.5°	14135.0	19117.0	13926.1	9002.8	*7657.4*	9002.8	13926.1	19117.0	14135.0	11427.7	10422.8
35°	11573.6	16164.1	11386.7	7074.1	*5961.7*	7074.1	11386.7	16164.1	11573.6	9171.7	8184.9
37.5°	9082.9	13374.1	9076.9	5696.4	*4835.5*	5696.4	9076.9	13374.1	9082.9	7130.6	6329.5
40°	7066.4	10457.3	7111.9	4547.2	*3880.5*	4547.2	7111.9	10457.3	7066.4	5425.5	4912.9
42.5°	5354.2	7996.3	5590.0	3732.0	*3296.1*	3732.0	5590.0	7996.3	5354.2	4274.7	3891.0
45°	4185.3	5884.3	4365.2	3148.6	*2806.0*	3148.6	4365.2	5884.3	4185.3	3442.5	3184.8
47.5°	3408.5	4547.8	3537.9	2700.7	*2460.6*	2700.7	3537.9	4547.8	3408.5	2911.8	2718.8
50°	2863.0	3489.6	2937.5	2357.5	*2196.3*	2357.5	2937.5	3489.6	2863.0	2493.4	2364.6
52.5°	2459.4	2846.0	2501.7	2100.9	*1992.4*	2100.9	2501.7	2846.0	2459.4	2181.5	2101.4
55°	2119.5	2392.5	2175.5	1889.2	*1814.2*	1889.2	2175.5	2392.5	2119.5	1941.4	1882.2
57.5°	1861.3	2029.6	1889.2	1708.9	*1659.0*	1708.9	1889.2	2029.6	1861.3	1727.6	1695.7
60°	1632.7	1757.7	1667.2	1551.5	*1537.3*	1551.5	1667.2	1757.7	1632.7	1554.3	1533.4
62.5°	1456.7	1535.7	1474.2	1410.1	*1397.5*	1410.1	1474.2	1535.7	1456.7	1396.4	1400.3
65°	1292.2	1365.7	1317.4	1282.9	*1287.3*	1282.9	1317.4	1365.7	1292.2	1264.2	1270.3
67.5°	1165.0	1203.4	1182.6	1162.8	*1167.8*	1162.8	1182.6	1203.4	1165.0	1137.6	1147.0
70°	1029.6	1070.7	1049.3	1052.1	*1060.3*	1052.1	1049.3	1070.7	1029.6	1021.4	1028.5
72.5°	900.3	932.1	924.9	931.4	*940.2*	931.4	924.9	932.1	900.3	899.2	899.7
75°	773.0	797.1	800.5	809.8	*823.5*	809.8	800.5	797.1	773.0	764.9	774.6
77.5°	634.3	661.7	672.1	684.7	*705.0*	684.7	672.1	661.7	634.3	639.8	644.8
80°	507.1	519.8	542.8	552.0	*580.6*	552.0	542.8	519.8	507.1	497.8	504.9
82.5°	371.1	382.7	402.4	420.0	*436.4*	420.0	402.4	382.7	371.1	366.8	367.3
85°	214.3	231.9	245.1	265.9	*270.8*	265.9	245.1	231.9	214.3	219.3	214.3
87.5°	75.1	80.6	92.1	100.3	*100.9*	100.3	92.1	80.6	75.1	76.8	69.6
90°	20.5	34.9	60.0	34.0	*24.3*	34.0	60.0	34.9	20.5	35.9	55.8
92.5°	26.6	47.1	84.6	44.7	*32.0*	44.7	84.6	47.1	26.6	46.6	89.6
95°	39.5	57.9	107.6	49.3	*38.2*	49.3	107.6	57.9	39.5	62.0	124.9
97.5°	61.0	71.7	121.4	52.4	*45.8*	52.4	121.4	71.7	61.0	75.8	143.4
100°	80.9	80.9	221.2	60.1	*51.9*	60.1	221.2	80.9	80.9	93.3	223.2
102.5°	122.4	158.2	512.0	119.0	*62.7*	119.0	512.0	158.2	122.4	174.6	473.5
105°	222.2	361.0	900.5	304.8	*113.9*	304.8	900.5	361.0	222.2	365.1	843.6
107.5°	420.3	672.7	1160.0	599.6	*262.8*	599.6	1160.0	672.7	420.3	646.0	1112.9
110°	672.1	939.9	1266.0	820.8	*530.1*	820.8	1266.0	939.9	672.1	887.1	1166.6

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

Scaled Data Report

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	874.9	1047.4	1236.8	909.8	*732.8*	909.8	1236.8	1047.4	874.9	979.3	1117.5
115°	950.6	1032.0	1104.7	906.8	*812.6*	906.8	1104.7	1032.0	950.6	956.3	997.7
117.5°	918.4	944.5	954.3	851.5	*817.2*	851.5	954.3	944.5	918.4	860.0	847.2
120°	829.3	818.6	804.3	770.1	*771.2*	770.1	804.3	818.6	829.3	751.0	707.5
122.5°	717.8	694.7	679.9	687.7	*708.2*	687.7	679.9	694.7	717.8	639.4	606.7
125°	608.8	585.7	592.9	617.0	*638.1*	617.0	592.9	585.7	608.8	543.3	535.0
127.5°	517.2	506.4	529.9	557.2	*575.2*	557.2	529.9	506.4	517.2	475.6	484.3
130°	451.6	454.2	485.4	508.5	*519.9*	508.5	485.4	454.2	451.6	431.7	452.6
132.5°	410.7	422.4	452.2	472.3	*479.0*	472.3	452.2	422.4	410.7	405.1	430.7
135°	385.2	402.5	429.7	442.6	*445.3*	442.6	429.7	402.5	385.2	387.3	410.7
137.5°	370.3	387.7	408.2	418.5	*416.1*	418.5	408.2	387.7	370.3	375.5	393.4
140°	361.7	379.0	388.3	400.1	*398.2*	400.1	388.3	379.0	361.7	364.8	378.6
142.5°	353.1	368.9	373.4	382.3	*379.8*	382.3	373.4	368.9	353.1	356.2	365.4
145°	349.0	360.8	357.1	368.5	*365.0*	368.5	357.1	360.8	349.0	350.0	355.2
147.5°	341.4	350.0	345.4	355.2	*351.7*	355.2	345.4	350.0	341.4	341.4	343.5
150°	332.7	338.9	332.2	343.5	*343.0*	343.5	332.2	338.9	332.7	331.2	333.3
152.5°	320.9	327.1	320.9	333.8	*332.8*	333.8	320.9	327.1	320.9	319.4	321.5
155°	311.3	314.4	311.3	324.1	*324.6*	324.1	311.3	314.4	311.3	310.8	311.9
157.5°	304.7	306.8	305.3	316.6	*317.1*	316.6	305.3	306.8	304.7	304.7	305.3
160°	299.2	302.3	301.3	311.1	*311.6*	311.1	301.3	302.3	299.2	300.2	300.7
162.5°	297.2	297.2	296.8	306.5	*307.6*	306.5	296.8	297.2	297.2	297.2	298.7
165°	294.3	295.8	293.8	301.1	*303.7*	301.1	293.8	295.8	294.3	295.3	295.3
167.5°	293.8	292.3	293.5	299.7	*302.4*	299.7	293.5	292.3	293.8	294.8	294.8
170°	291.3	291.9	291.5	297.7	*300.4*	297.7	291.5	291.9	291.3	292.8	293.8
172.5°	293.0	293.0	291.6	296.3	*300.4*	296.3	291.6	293.0	293.0	294.0	295.6
175°	294.1	293.1	292.7	295.8	*300.0*	295.8	292.7	293.1	294.1	293.6	293.6
177.5°	292.6	293.7	294.7	297.9	*303.6*	297.9	294.7	293.7	292.6	293.6	293.6
180°	293.7	293.7	293.7	293.7	*293.7*	293.7	293.7	293.7	293.7	293.7	293.7

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	29237.8	29237.8	29237.8	29237.8	29237.8	29237.8
2.5°	28388.5	28369.9	28388.5	28586.9	28845.1	29220.7
5°	27728.9	27625.8	27728.9	27948.8	28423.1	29138.0
7.5°	26960.9	26901.1	26960.9	27328.7	27927.9	28940.0
10°	*26152.2*	*26016.7*	*26152.2*	*26567.7*	*27274.5*	*28637.9*
12.5°	25155.5	24976.2	25155.5	25584.7	26476.2	28156.0
15°	23887.9	23730.5	23887.9	24364.3	25398.4	27443.3
17.5°	22527.6	22385.1	22527.6	22941.6	24080.3	26438.9
20°	20819.3	20707.5	20819.3	21404.9	22522.2	25144.5
22.5°	19027.0	18922.4	19027.0	19547.4	20710.2	23521.6
25°	16918.5	16861.5	16918.5	17499.7	18551.2	21623.6
27.5°	14639.9	14543.0	14639.9	15248.0	16322.0	19391.1
30°	12312.1	12151.4	12312.1	12855.9	13817.6	16911.4
32.5°	10035.2	9919.5	10035.2	10422.8	11427.7	14135.0
35°	7834.5	7718.9	7834.5	8184.9	9171.7	11573.6
37.5°	6104.8	5900.3	6104.8	6329.5	7130.6	9082.9
40°	4630.0	4597.1	4630.0	4912.9	5425.5	7066.4
42.5°	3769.2	3679.9	3769.2	3891.0	4274.7	5354.2
45°	3092.7	3057.6	3092.7	3184.8	3442.5	4185.3
47.5°	2659.5	2674.9	2659.5	2718.8	2911.8	3408.5
50°	2336.6	2345.9	2336.6	2364.6	2493.4	2863.0
52.5°	2098.7	2090.5	2098.7	2101.4	2181.5	2459.4
55°	1888.2	1877.7	1888.2	1882.2	1941.4	2119.5
57.5°	1704.0	1711.6	1704.0	1695.7	1727.6	1861.3
60°	1539.5	1546.7	1539.5	1533.4	1554.3	1632.7
62.5°	1400.8	1405.2	1400.8	1400.3	1396.4	1456.7
65°	1276.8	1281.8	1276.8	1270.3	1264.2	1292.2
67.5°	1158.5	1158.5	1158.5	1147.0	1137.6	1165.0
70°	1047.2	1046.6	1047.2	1028.5	1021.4	1029.6
72.5°	913.4	926.5	913.4	899.7	899.2	900.3
75°	783.4	798.8	783.4	774.6	764.9	773.0
77.5°	651.8	675.5	651.8	644.8	639.8	634.3
80°	517.0	542.8	517.0	504.9	497.8	507.1
82.5°	382.1	401.3	382.1	367.3	366.8	371.1
85°	227.5	258.2	227.5	214.3	219.3	214.3
87.5°	73.0	93.2	73.0	69.6	76.8	75.1
90°	32.8	20.5	32.8	55.8	35.9	20.5
92.5°	49.7	29.7	49.7	89.6	46.6	26.6
95°	57.4	34.3	57.4	124.9	62.0	39.5
97.5°	63.5	44.0	63.5	143.4	75.8	61.0
100°	74.2	57.9	74.2	223.2	93.3	80.9
102.5°	157.2	97.8	157.2	473.5	174.6	122.4
105°	330.7	168.5	330.7	843.6	365.1	222.2
107.5°	591.7	291.3	591.7	1112.9	646.0	420.3
110°	785.2	543.2	785.2	1166.6	887.1	672.1

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	843.6	733.6	843.6	1117.5	979.3	874.9
115°	811.3	771.9	811.3	997.7	956.3	950.6
117.5°	740.7	745.8	740.7	847.2	860.0	918.4
120°	659.4	690.5	659.4	707.5	751.0	829.3
122.5°	584.6	621.5	584.6	606.7	639.4	717.8
125°	520.1	557.5	520.1	535.0	543.3	608.8
127.5°	475.6	500.7	475.6	484.3	475.6	517.2
130°	440.8	462.3	440.8	452.6	431.7	451.6
132.5°	416.8	430.6	416.8	430.7	405.1	410.7
135°	395.8	407.6	395.8	410.7	387.3	385.2
137.5°	377.9	388.2	377.9	393.4	375.5	370.3
140°	362.2	370.8	362.2	378.6	364.8	361.7
142.5°	345.8	351.9	345.8	365.4	356.2	353.1
145°	334.7	339.3	334.7	355.2	350.0	349.0
147.5°	325.0	328.1	325.0	343.5	341.4	341.4
150°	315.4	318.5	315.4	333.3	331.2	332.7
152.5°	305.2	308.8	305.2	321.5	319.4	320.9
155°	298.5	302.2	298.5	311.9	310.8	311.3
157.5°	295.0	297.6	295.0	305.3	304.7	304.7
160°	292.1	294.2	292.1	300.7	300.2	299.2
162.5°	288.6	290.7	288.6	298.7	297.2	297.2
165°	288.1	288.7	288.1	295.3	295.3	294.3
167.5°	287.1	288.7	287.1	294.8	294.8	293.8
170°	287.7	288.2	287.7	293.8	292.8	291.3
172.5°	288.8	289.4	288.8	295.6	294.0	293.0
175°	288.4	288.9	288.4	293.6	293.6	294.1
177.5°	290.5	291.0	290.5	293.6	293.6	292.6
180°	293.7	293.7	293.7	293.7	293.7	293.7

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

Scaled Data Report

TEST NUMBER: P1433551
CATALOG NUMBER: EHBR1-36-UNV-TASM-L935-UPL30

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	17.65	18.74	18.15	19.21	19.72	16.97	18.05	17.47	18.53	19.04
	3H	19.19	20.16	19.71	20.65	21.21	18.81	19.78	19.33	20.27	20.83
	4H	19.83	20.73	20.37	21.24	21.81	19.59	20.50	20.13	21.00	21.58
	6H	20.31	21.14	20.86	21.66	22.25	20.24	21.07	20.79	21.59	22.17
	8H	20.46	21.25	21.03	21.79	22.38	20.46	21.24	21.02	21.78	22.38
	12H	20.53	21.28	21.10	21.82	22.43	20.58	21.34	21.15	21.87	22.48
4H	2H	18.06	18.97	18.60	19.47	20.05	17.54	18.44	18.08	18.95	19.52
	3H	19.86	20.60	20.41	21.16	21.75	19.60	20.34	20.14	20.90	21.49
	4H	20.63	21.30	21.20	21.87	22.49	20.50	21.18	21.07	21.74	22.37
	6H	21.24	21.82	21.84	22.41	23.06	21.27	21.85	21.87	22.44	23.09
	8H	21.44	21.98	22.04	22.57	23.22	21.54	22.08	22.14	22.67	23.32
	12H	21.55	22.02	22.16	22.64	23.29	21.71	22.19	22.33	22.81	23.46
8H	4H	20.88	21.42	21.48	22.01	22.66	20.78	21.32	21.38	21.91	22.56
	6H	21.62	22.06	22.25	22.69	23.35	21.68	22.12	22.31	22.76	23.42
	8H	21.89	22.28	22.54	22.93	23.60	22.04	22.43	22.69	23.07	23.75
	12H	22.06	22.41	22.71	23.03	23.78	22.29	22.63	22.93	23.26	24.00
12H	4H	20.89	21.37	21.50	21.98	22.64	20.79	21.27	21.41	21.89	22.54
	6H	21.66	22.06	22.31	22.70	23.37	21.73	22.12	22.38	22.77	23.44
	8H	21.98	22.32	22.62	22.95	23.69	22.13	22.48	22.78	23.10	23.85

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

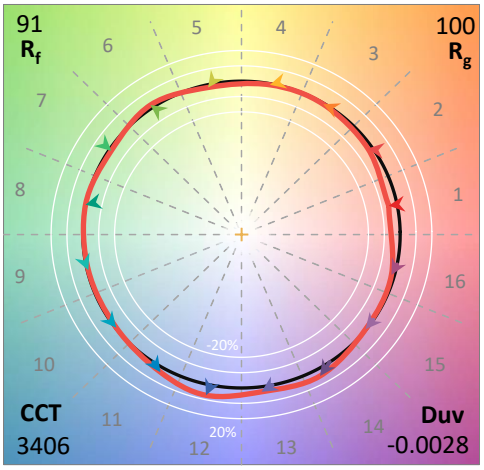
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

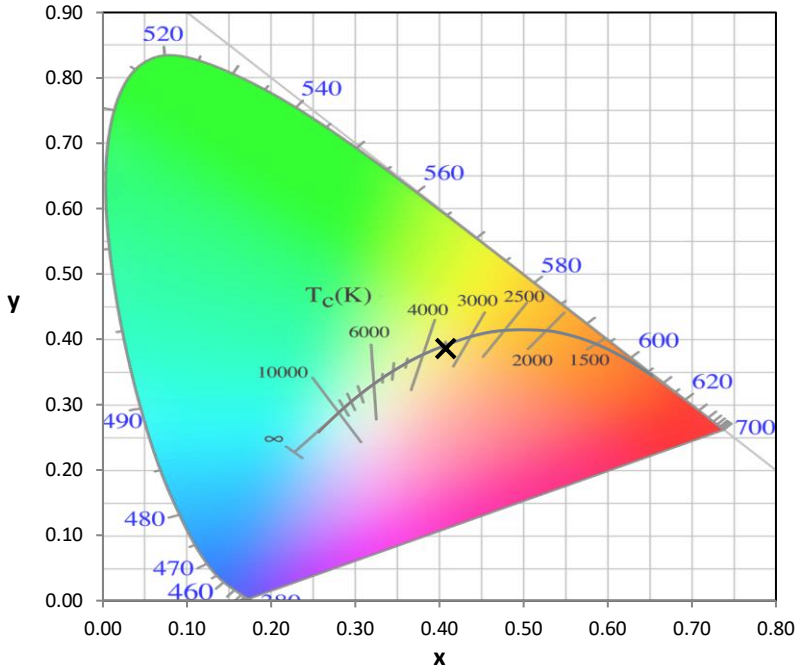
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

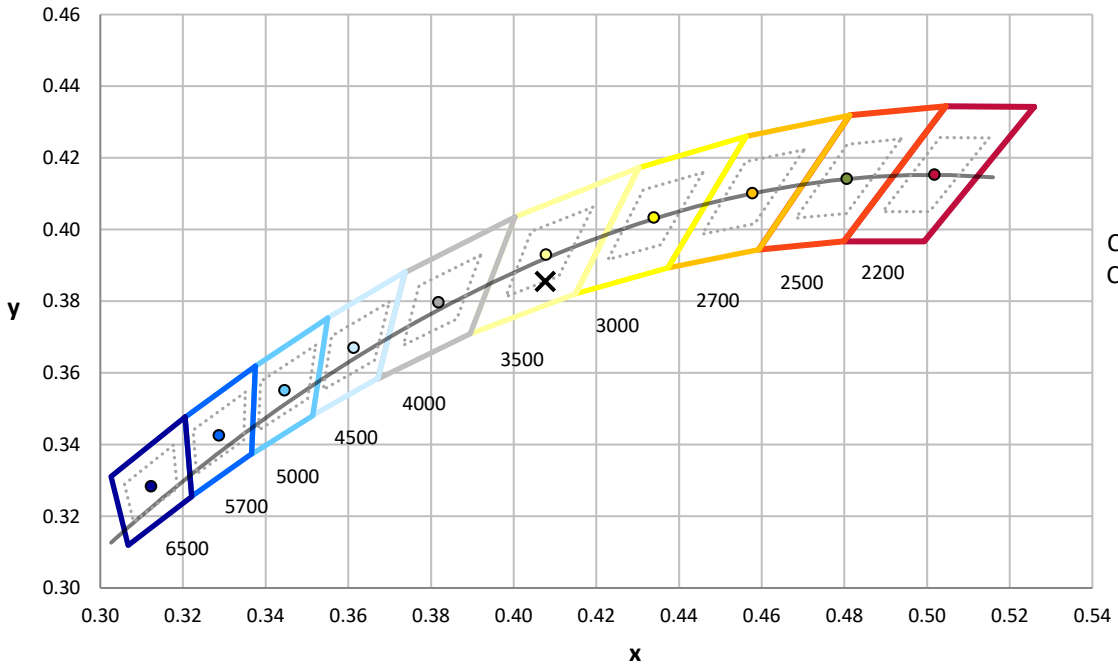
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

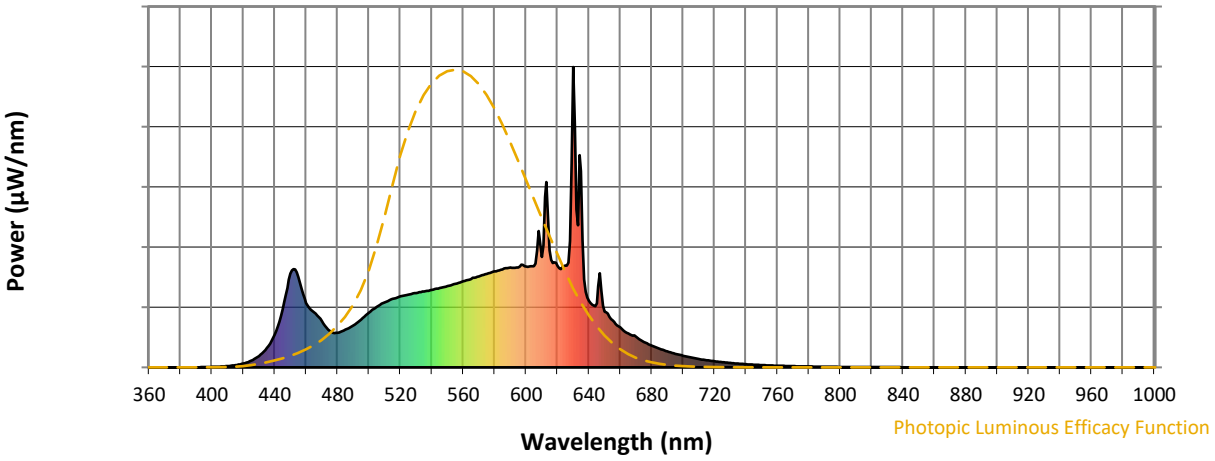


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

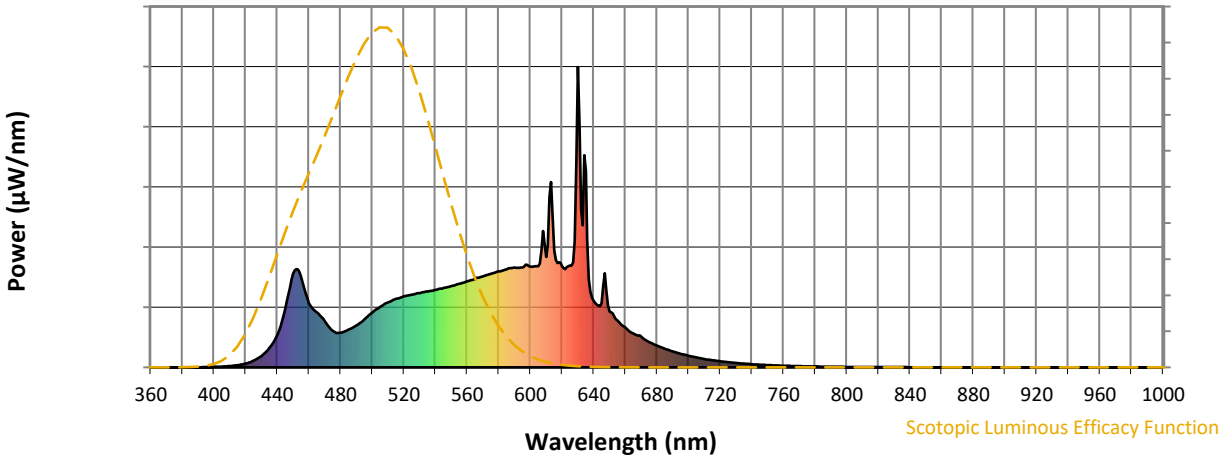


Photopic Lumens: NR

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

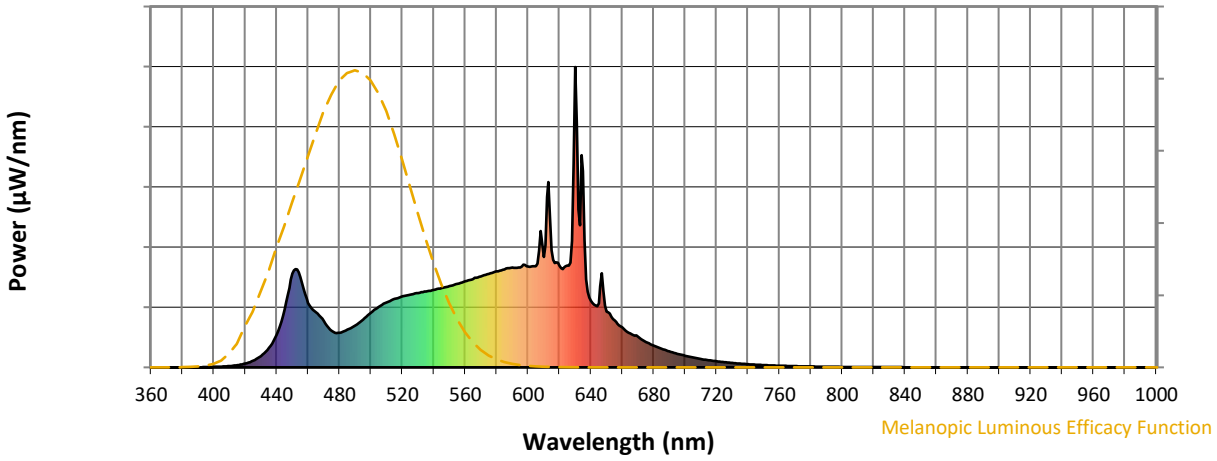


Scotopic Lumens: NR **S/P: 1.62**

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			

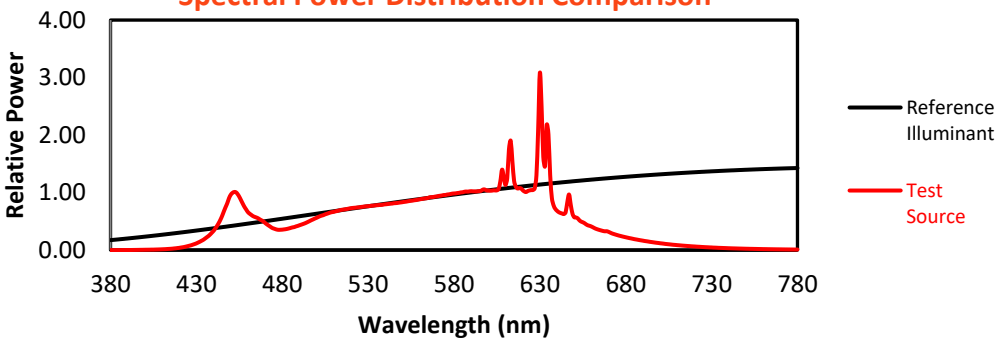
REPORT NUMBER: SP1-2506-472-6

TM-30-18

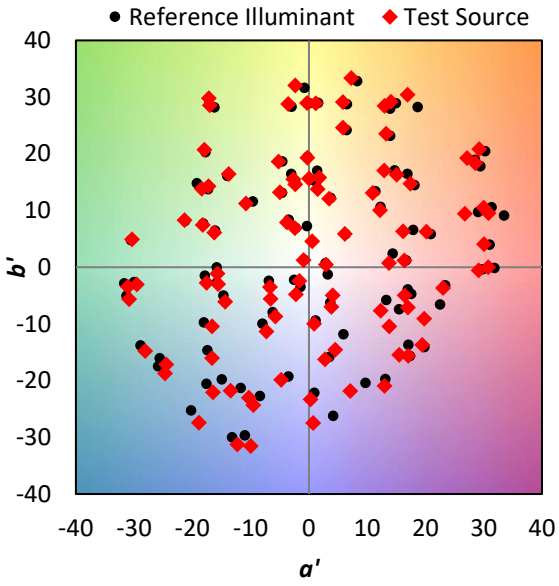
Summary

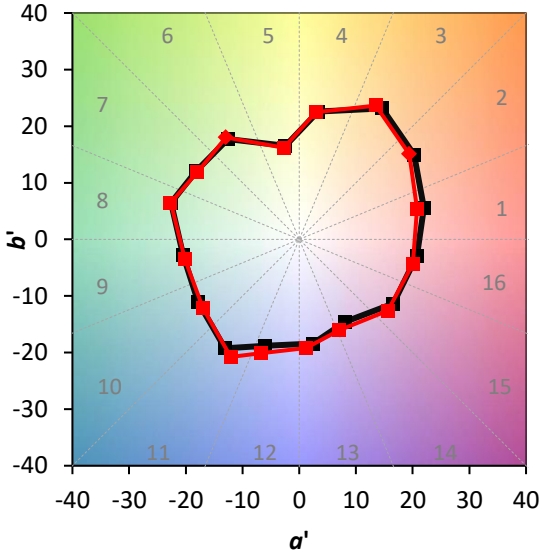
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

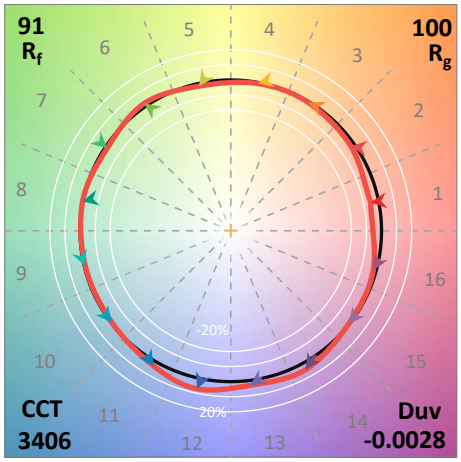
Spectral Power Distribution Comparison

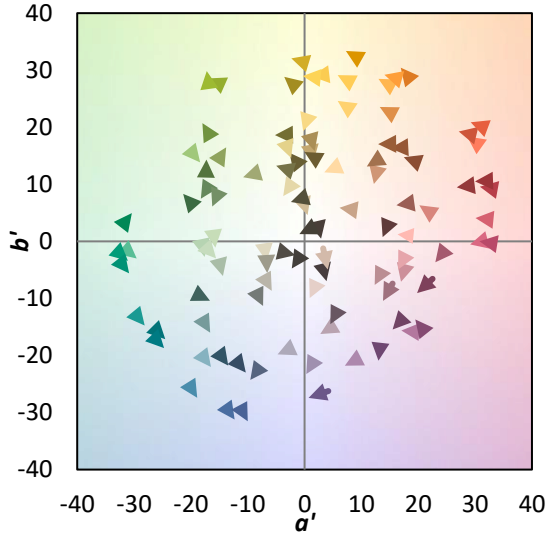


Color Vector Graphics







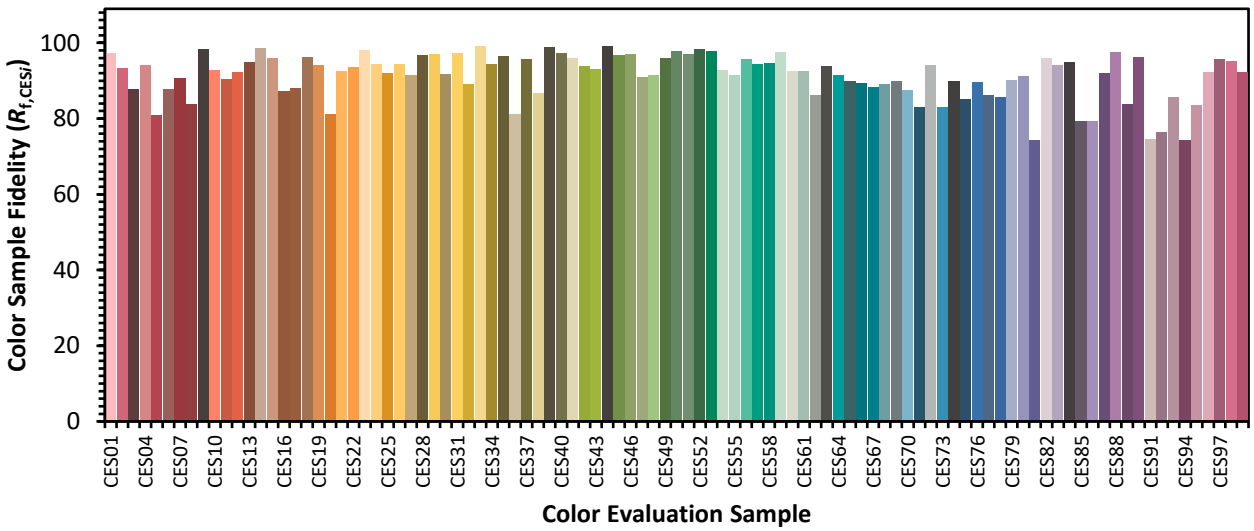


REPORT NUMBER: SP1-2506-472-6

TM-30-18

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

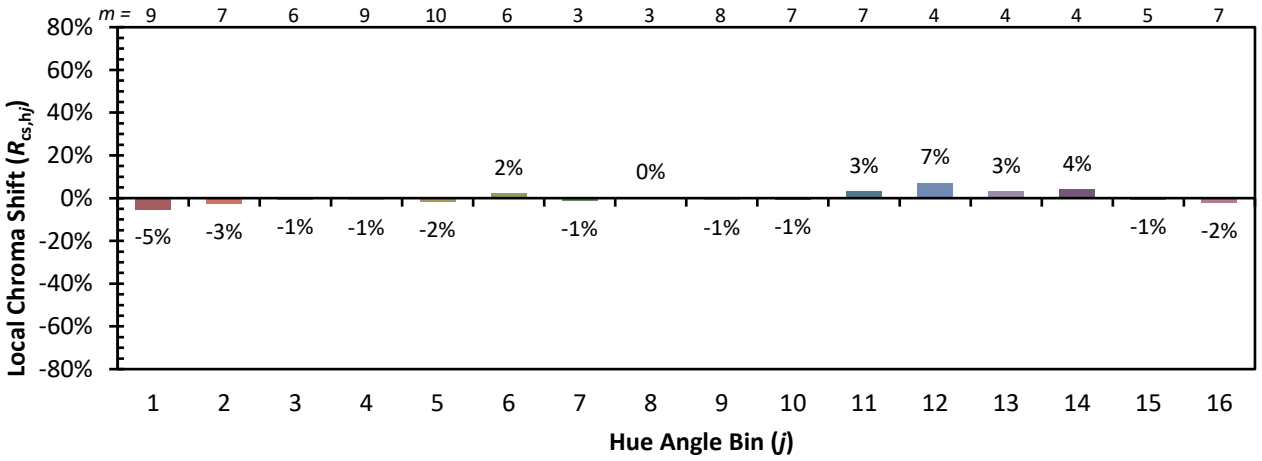
CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 90
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 74
CES07 = 43	CES32 = 89	CES57 = 94	CES82 = 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	

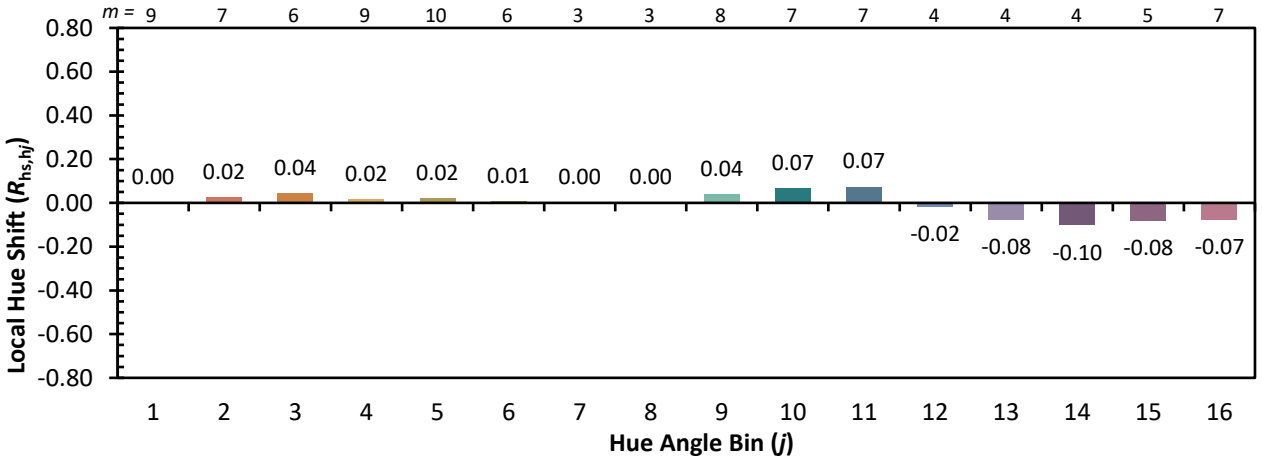


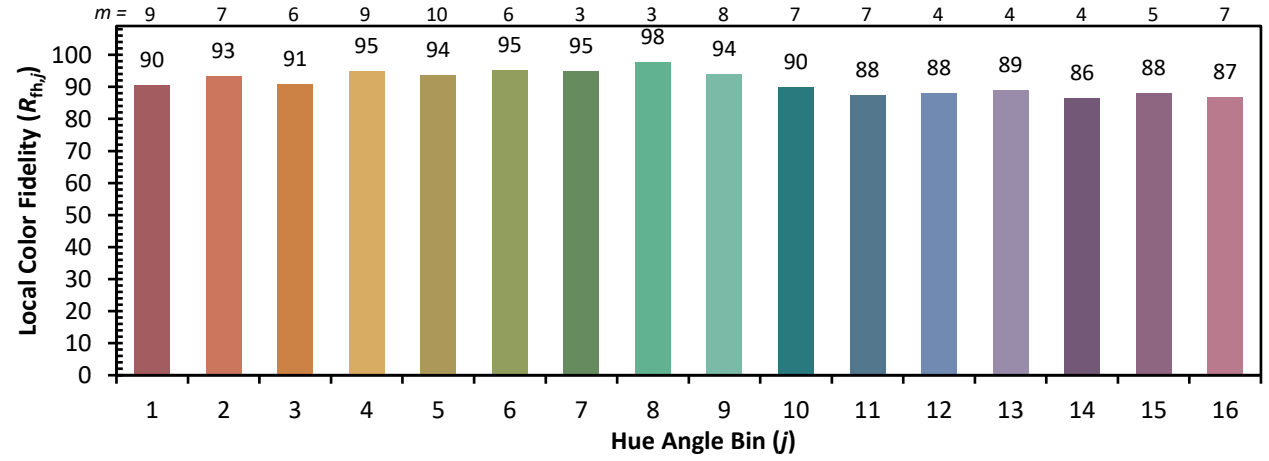
REPORT NUMBER: SP1-2506-472-6

TM-30-18

Color Rendition by Hue-Angle Bin



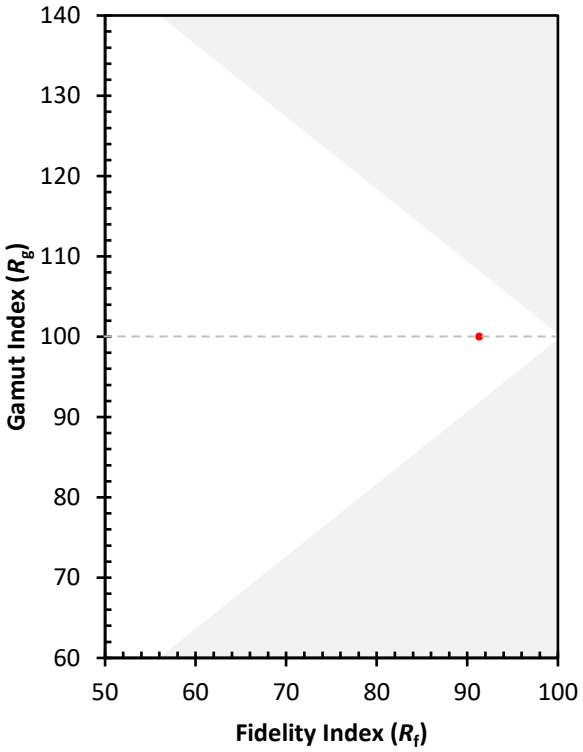


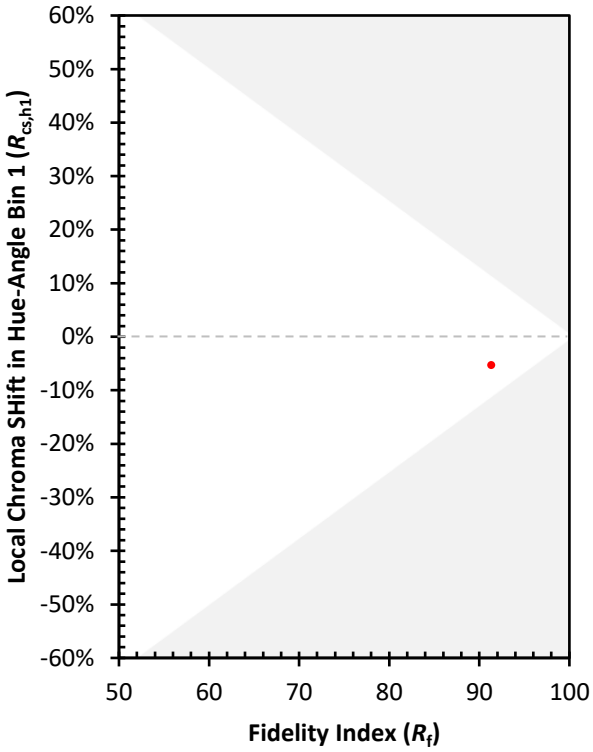


REPORT NUMBER: SP1-2506-472-6

TM-30-18

Measure Comparisons





(END OF REPORT)