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: METALUX

Report Number: P292204

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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Test Information

Test Method:	LM-79-08
Report Number:	P292204
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	22GR-LD5-36-A-UNV-L82765-W2A1-U-6500K
Description:	GRLED 2x2 TUNABLE WHITE TROFFER WITH A LENS
Light Source:	(168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3770.0 lumens
Efficiency:	N/A
Efficacy:	128.7 lumens/watt
Spacing Criteria (0/90/45):	1.18 / 1.22 / 1.25
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct

Input Watts (W):	29.295
Input Voltage (V):	120
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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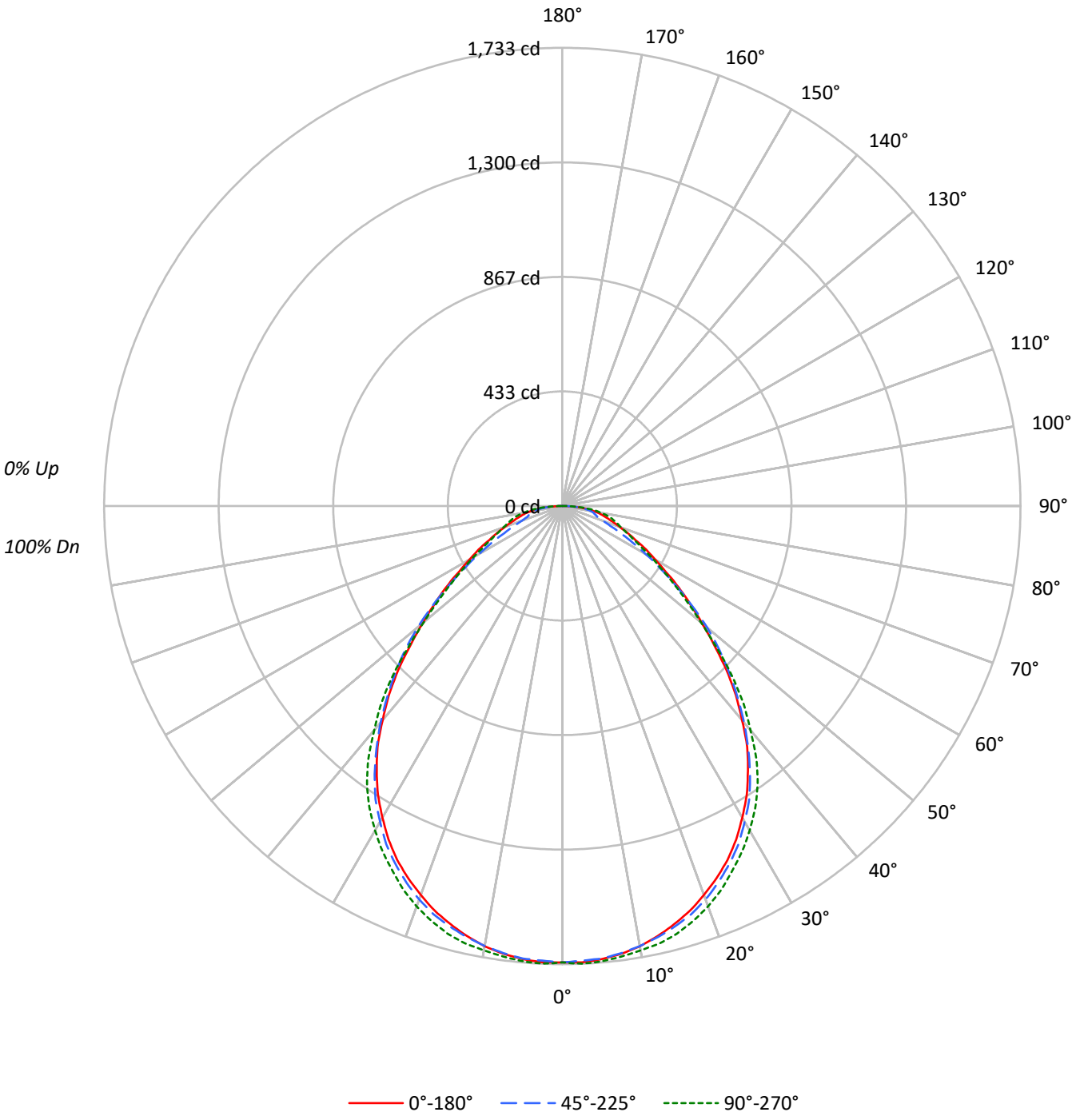
Luminous Intensity Polar Plot



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4646	4646	4646
5°	4647	4640	4669
10°	4620	4617	4662
15°	4561	4585	4666
20°	4482	4535	4615
25°	4387	4436	4517
30°	4228	4285	4402
35°	4020	4067	4231
40°	3717	3757	3889
45°	3339	3399	3452
50°	2887	2990	2857
55°	2519	2453	2420
60°	2181	1964	2096
65°	1950	1542	1882
70°	1809	1277	1857
75°	1806	1350	2062
80°	1999	1700	2325
85°	2087	1843	2628

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	4.3
10°-20°	465.3	12.3
20°-30°	688.2	18.3
30°-40°	776.6	20.6
40°-50°	684.6	18.2
50°-60°	469.6	12.5
60°-70°	277.1	7.4
70°-80°	172.9	4.6
80°-90°	72.1	1.9
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°-30°	1316.9	34.9
0°-40°	2093.6	55.5
0°-60°	3247.8	86.1
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1720	1717	1718	1724	1728	163
15°	1637	1639	1646	1666	1675	461
25°	1477	1483	1494	1513	1521	678
35°	1224	1234	1238	1268	1288	763
45°	877	882	893	898	907	674
55°	537	524	523	505	516	482
65°	306	269	242	280	296	308
75°	174	156	130	182	198	186
85°	68	63	60	78	85	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.5	1726.5	1726.5	1726.5	*1726.5*
2.5°	*1727.4*	*1723.0*	*1721.3*	*1728.3*	*1732.7*
5°	1720.4	1716.9	1717.8	1723.9	*1728.3*
7.5°	1708.1	1705.5	1705.5	1714.2	*1718.6*
10°	1690.6	1689.7	1689.7	1700.2	*1706.3*
12.5°	1666.0	1666.9	1670.4	1684.4	*1694.9*
15°	1637.0	1638.8	1645.8	1666.0	*1674.8*
17.5°	1605.5	1605.5	1619.5	1635.3	*1645.8*
20°	1565.1	1567.7	1583.5	1601.1	*1611.6*
22.5°	1523.9	1528.3	1541.4	1561.6	*1571.2*
25°	1477.4	1482.6	1494.0	1513.3	*1521.2*
27.5°	1423.0	1430.0	1442.3	1456.3	*1473.0*
30°	1360.7	1371.2	1379.1	1398.4	*1416.8*
32.5°	1297.5	1307.2	1315.9	1336.1	*1357.2*
35°	1223.8	1234.4	1237.9	1267.7	*1287.9*
37.5°	1148.4	1152.8	1154.5	1184.4	*1206.3*
40°	1058.0	1066.8	1069.4	1093.1	*1107.2*
42.5°	971.2	974.7	979.9	997.5	*1014.2*
45°	877.3	881.7	893.1	898.4	*907.1*
47.5°	779.0	792.2	805.4	788.7	*789.6*
50°	689.6	700.1	714.1	682.5	*682.5*
52.5°	609.7	615.0	615.9	589.5	*594.8*
55°	536.9	523.7	522.9	505.3	*515.9*
57.5°	464.1	446.5	440.4	435.1	*447.4*
60°	405.3	373.7	365.0	372.9	*389.5*
62.5°	357.1	316.7	300.0	320.2	*335.1*
65°	306.2	269.3	242.1	279.9	*295.6*
67.5°	266.7	231.6	196.5	250.0	*261.4*
70°	229.9	202.7	162.3	227.2	*236.0*
72.5°	200.0	179.0	140.4	205.3	*215.8*
75°	173.7	156.2	129.8	181.6	*198.3*
77.5°	152.6	133.3	121.1	157.0	*177.2*
80°	129.0	109.7	109.7	131.6	*150.0*
82.5°	101.8	86.0	88.6	107.0	*120.2*
85°	67.6	63.2	59.7	78.1	*85.1*
87.5°	34.2	35.1	31.6	40.4	*41.2*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)