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: P219177

Luminaire Tested: **24GR-LD5-42-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Report Generated By E9911574 / USPTCWHP6081592

Test Information

Test Method:	LM-79-08
Report Number:	P219177
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/12/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	24GR-LD5-42-A125-UNV-L940-CD1-U
Description:	METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3762.5 lumens
Efficiency:	N/A
Efficacy:	108.7 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.2 / 1.26
Luminous Opening:	Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type:	Direct
Input Watts (W):	34.617
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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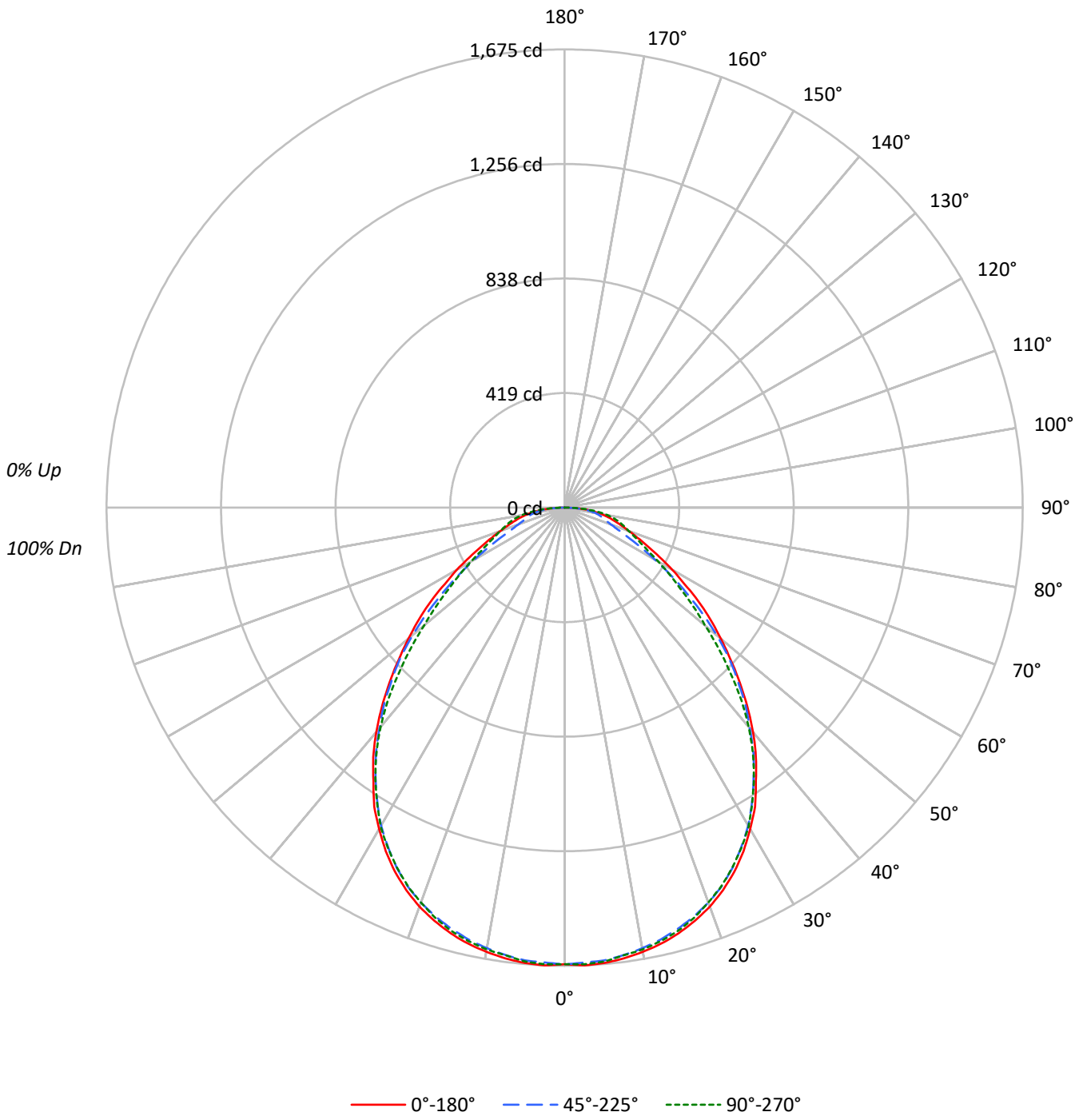
Luminous Intensity Polar Plot



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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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2557	2557	2557
5°	2569	2555	2561
10°	2565	2544	2551
15°	2555	2529	2540
20°	2531	2505	2504
25°	2481	2455	2453
30°	2399	2375	2380
35°	2279	2253	2256
40°	2143	2106	2093
45°	1964	1938	1861
50°	1776	1727	1597
55°	1594	1451	1377
60°	1396	1168	1211
65°	1218	918	1114
70°	1114	802	1114
75°	1114	853	1228
80°	1210	1006	1400
85°	1329	1133	1503

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Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	4.2
10°-20°	451.1	12.0
20°-30°	668.9	17.8
30°-40°	754.6	20.1
40°-50°	683.5	18.2
50°-60°	493.1	13.1
60°-70°	294.4	7.8
70°-80°	182.0	4.8
80°-90°	76.7	2.0
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°	1278.2	34.0
0°-40°	2032.8	54.0
0°-60°	3209.4	85.3
0°-90°	3762.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3762.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1671	1669	1662	1660	1666	159
15°	1611	1601	1595	1596	1602	454
25°	1468	1460	1452	1447	1451	675
35°	1219	1217	1205	1206	1207	763
45°	907	901	895	872	859	699
55°	597	578	543	517	516	533
65°	336	296	253	288	307	338
75°	188	163	144	180	208	201
85°	76	66	64	84	86	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1669.3*	1669.3	1669.3	1669.3	1669.3
2.5°	*1675.2*	*1670.6*	*1664.7*	*1668.2*	*1671.2*
5°	*1671.2*	1668.7	1661.8	1660.1	1665.9
7.5°	*1662.4*	1656.6	1650.2	1653.1	1650.8
10°	*1649.0*	1643.8	1635.6	1636.2	1640.3
12.5°	*1632.7*	1626.3	1617.7	1620.0	1623.4
15°	*1611.2*	1601.3	1595.0	1595.6	1601.9
17.5°	*1583.9*	1576.4	1568.2	1569.9	1572.9
20°	*1552.6*	1548.4	1536.8	1533.4	1536.2
22.5°	*1513.0*	1505.4	1499.1	1497.3	1497.9
25°	*1468.3*	1460.1	1452.5	1447.3	1451.4
27.5°	*1415.9*	1408.9	1399.0	1397.3	1400.9
30°	*1356.6*	1351.4	1342.7	1340.4	1345.6
32.5°	*1296.2*	1287.5	1275.3	1275.3	1276.4
35°	*1218.9*	1217.2	1204.9	1205.5	1206.7
37.5°	*1149.1*	1141.0	1134.0	1127.0	1130.6
40°	*1071.8*	1062.5	1053.2	1048.6	1046.9
42.5°	*988.7*	981.8	977.6	960.8	956.8
45°	*906.8*	900.9	894.6	872.5	859.1
47.5°	*823.0*	821.9	816.7	777.7	764.4
50°	*745.2*	743.4	724.8	683.5	670.2
52.5°	*671.3*	659.7	635.3	594.6	592.3
55°	*596.9*	578.4	543.4	516.8	515.6
57.5°	*518.5*	496.4	461.0	446.4	454.0
60°	*455.7*	422.0	381.3	383.0	395.3
62.5°	*390.6*	352.9	312.7	330.2	344.7
65°	*336.0*	295.8	253.4	287.8	307.4
67.5°	*288.3*	251.1	210.4	256.4	275.5
70°	*248.8*	218.5	179.1	227.3	248.8
72.5°	*217.4*	189.5	158.7	204.0	229.0
75°	*188.3*	163.3	144.1	179.6	207.5
77.5°	*163.3*	138.9	130.2	158.7	186.0
80°	*137.2*	115.1	114.0	138.4	158.7
82.5°	*107.0*	91.8	91.8	115.7	127.9
85°	*75.6*	66.3	64.5	84.3	85.5
87.5°	*39.0*	37.2	33.7	44.2	44.2
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)