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: P229612

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P229612
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	22RLN-LD5-40-RDP-UNV-L830-CD1-U
Description:	METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source:	(126)3000K CCT, 80 CRI LEDs
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3149.0 lumens
Efficiency:	N/A
Efficacy:	88.5 lumens/watt
Spacing Criteria (0/90/45):	1.25 / 1.38 / 1.41
Luminous Opening:	Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type:	Direct

Input Watts (W):	35.6
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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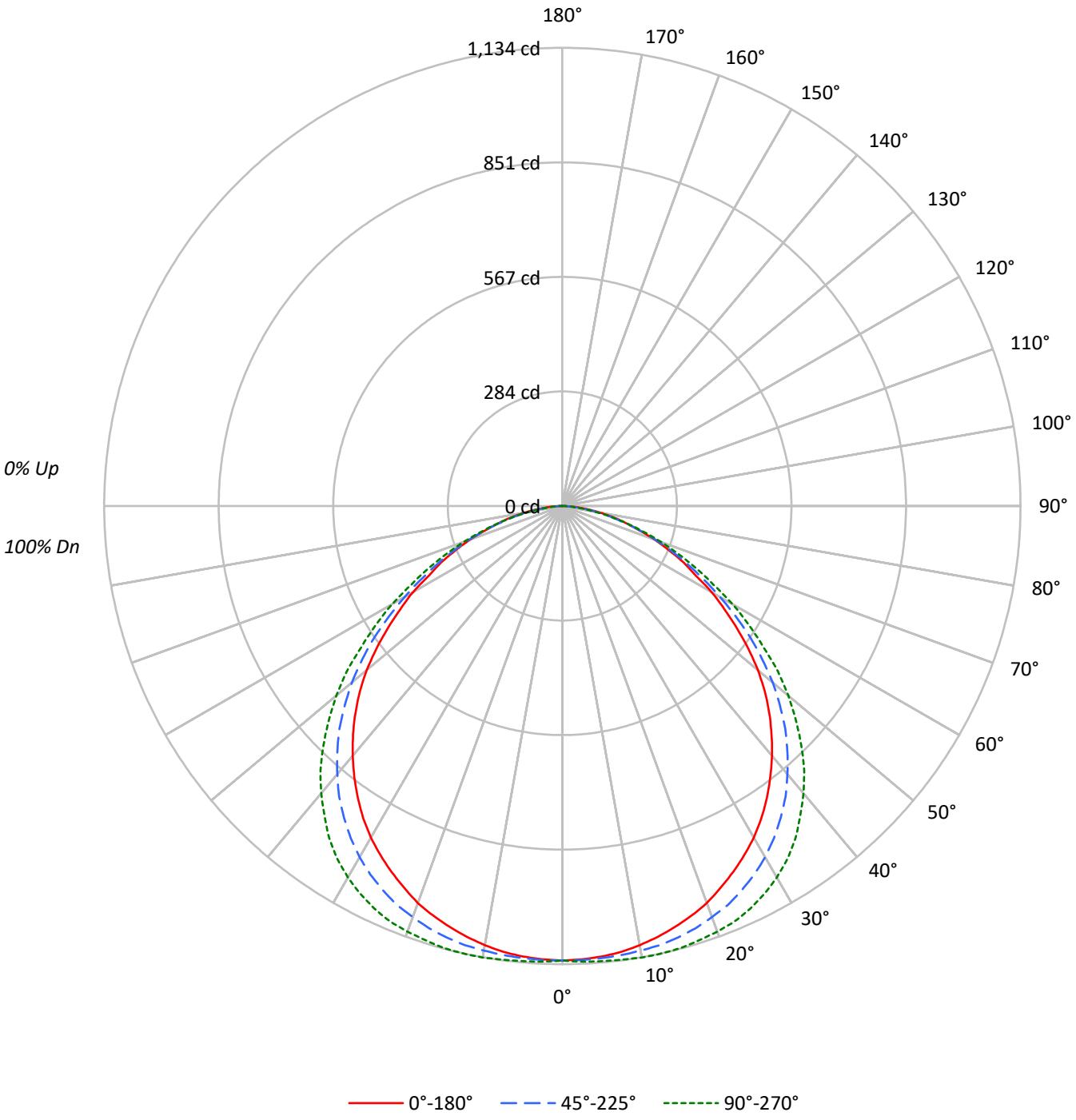
Luminous Intensity Polar Plot



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3602	3602	3602
5°	3598	3610	3635
10°	3589	3633	3689
15°	3576	3666	3755
20°	3565	3689	3821
25°	3532	3709	3886
30°	3504	3711	3925
35°	3449	3683	3931
40°	3374	3623	3881
45°	3280	3533	3786
50°	3148	3388	3637
55°	2946	3173	3388
60°	2739	2887	3121
65°	2511	2598	2774
70°	2273	2308	2417
75°	2002	1954	2026
80°	1741	1599	1527
85°	1415	1062	919

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.4
10°-20°	312.3	9.9
20°-30°	483.9	15.4
30°-40°	588.9	18.7
40°-50°	599.8	19.0
50°-60°	505.8	16.1
60°-70°	342.1	10.9
70°-80°	171.0	5.4
80°-90°	38.0	1.2
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°	903.3	28.7
0°-40°	1492.2	47.4
0°-60°	2597.8	82.5
0°-90°	3149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1119	1121	1123	1129	1131	106
15°	1079	1086	1106	1125	1132	305
25°	1000	1015	1050	1084	1100	461
35°	882	901	942	986	1005	551
45°	724	738	780	820	836	558
55°	528	536	568	595	607	472
65°	331	326	343	358	366	327
75°	162	156	158	160	164	173
85°	38	33	29	25	25	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.8	1124.8	1124.8	1124.8	*1124.8*
2.5°	1122.9	1122.9	1124.8	1126.8	*1128.7*
5°	1119.1	1121.0	1122.9	1128.7	*1130.6*
7.5°	1113.3	1115.2	1121.0	1128.7	*1132.5*
10°	*1103.6*	*1107.5*	*1117.1*	*1128.7*	*1134.5*
12.5°	1092.1	1097.9	1113.3	1126.8	*1134.5*
15°	1078.6	1086.3	1105.6	1124.8	*1132.5*
17.5°	1063.2	1072.8	1095.9	1117.1	*1126.8*
20°	1045.9	1057.4	1082.5	1109.4	*1121.0*
22.5°	1022.8	1038.2	1069.0	1099.8	*1113.3*
25°	999.6	1015.0	1049.7	1084.4	*1099.8*
27.5°	974.6	991.9	1028.5	1067.1	*1082.5*
30°	947.6	963.0	1003.5	1043.9	*1061.3*
32.5°	916.8	932.2	974.6	1017.0	*1036.2*
35°	882.1	901.4	941.9	986.2	*1005.4*
37.5°	845.6	862.9	907.2	949.6	*966.9*
40°	807.0	824.4	866.7	911.0	*928.4*
42.5°	766.6	783.9	824.4	866.7	*886.0*
45°	724.2	737.7	780.1	820.5	*835.9*
47.5°	679.9	689.5	730.0	768.5	*783.9*
50°	631.8	641.4	679.9	714.6	*730.0*
52.5°	579.8	587.5	624.1	654.9	*672.2*
55°	527.7	535.5	568.2	595.2	*606.7*
57.5°	475.7	479.6	508.5	535.5	*547.0*
60°	427.6	427.6	450.7	471.9	*487.3*
62.5°	371.7	377.5	394.8	416.0	*421.8*
65°	331.3	325.5	342.8	358.3	*366.0*
67.5°	285.1	281.2	292.8	306.2	*310.1*
70°	242.7	236.9	246.5	254.2	*258.1*
72.5°	198.4	196.5	200.3	206.1	*208.0*
75°	161.8	156.0	157.9	159.9	*163.7*
77.5°	129.0	119.4	121.3	119.4	*121.3*
80°	94.4	86.7	86.7	84.7	*82.8*
82.5°	63.6	59.7	55.9	52.0	*50.1*
85°	38.5	32.7	28.9	25.0	*25.0*
87.5°	15.4	11.6	9.6	9.6	*9.6*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)