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: P#

Luminaire Tested: **24CZ-LD5-65-UNV-L835-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:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	24CZ-LD5-65-UNV-L835-CD1-U
Description:	CRUZE 2x4 LED TROFFER

Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6579.0 lumens
Efficiency:	N/A
Efficacy:	114.1 lumens/watt
Spacing Criteria (0/90/45):	1.19 / 1.26 / 1.35
Luminous Opening:	Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	57.64
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:	25 FT

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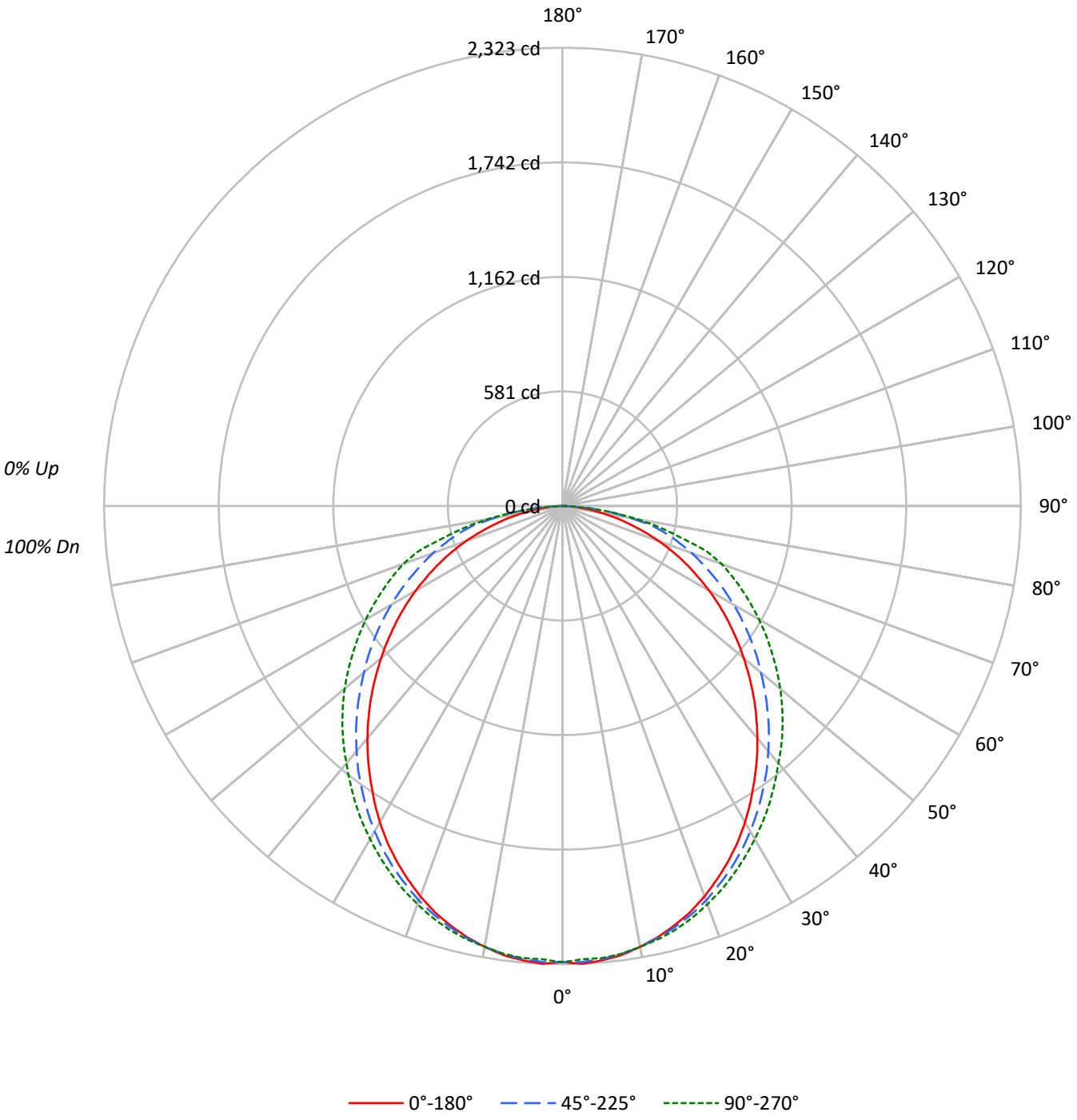
Luminous Intensity Polar Plot



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3111	3111	3111
5°	3116	3099	3094
10°	3087	3072	3073
15°	3044	3034	3055
20°	2988	2990	3021
25°	2916	2934	2984
30°	2835	2871	2944
35°	2739	2800	2909
40°	2645	2729	2871
45°	2547	2657	2859
50°	2438	2586	2847
55°	2332	2528	2837
60°	2217	2471	2849
65°	2083	2418	2883
70°	1911	2390	2965
75°	1671	2379	2726
80°	1367	2093	2310
85°	940	1355	1319

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	3.3
10°-20°	622.3	9.5
20°-30°	930.2	14.1
30°-40°	1103.0	16.8
40°-50°	1134.3	17.2
50°-60°	1037.6	15.8
60°-70°	836.8	12.7
70°-80°	543.3	8.3
80°-90°	152.9	2.3
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°	1771.1	26.9
0°-40°	2874.1	43.7
0°-60°	5046.0	76.7
0°-90°	6579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2312	2296	2305	2301	2301	219
15°	2200	2189	2209	2218	2222	620
25°	1987	1987	2026	2041	2057	915
35°	1696	1712	1768	1804	1833	1062
45°	1372	1397	1470	1538	1578	1057
55°	1030	1063	1159	1251	1296	921
65°	689	730	846	956	1003	682
75°	351	416	548	616	622	375
85°	78	130	141	139	134	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2311.9*	2311.9	2311.9	2311.9	2311.9
2.5°	*2323.1*	*2305.2*	*2314.2*	*2309.7*	*2300.7*
5°	*2311.9*	2296.3	2305.2	2300.7	2300.7
7.5°	*2296.3*	2280.6	2289.5	2289.5	2289.5
10°	*2269.4*	2256.0	2269.4	2269.4	2269.4
12.5°	*2238.1*	2226.9	2242.5	2244.8	2249.3
15°	*2200.0*	2188.8	2209.0	2217.9	2222.4
17.5°	*2157.5*	2148.5	2170.9	2182.1	2188.8
20°	*2106.0*	2099.3	2128.4	2139.6	2148.5
22.5°	*2047.8*	2047.8	2076.9	2090.4	2106.0
25°	*1987.4*	1987.4	2025.5	2041.1	2056.8
27.5°	*1922.5*	1924.7	1967.3	1989.6	2005.3
30°	*1850.9*	1859.8	1904.6	1931.5	1949.4
32.5°	*1774.8*	1786.0	1837.5	1871.0	1893.4
35°	*1696.5*	1712.1	1768.1	1803.9	1833.0
37.5°	*1618.1*	1638.3	1698.7	1739.0	1768.1
40°	*1537.6*	1559.9	1622.6	1669.6	1703.2
42.5°	*1454.7*	1479.4	1548.7	1602.5	1642.7
45°	*1371.9*	1396.6	1470.4	1537.6	1577.8
47.5°	*1284.7*	1313.7	1392.1	1470.4	1510.7
50°	*1199.6*	1230.9	1313.7	1398.8	1441.3
52.5°	*1114.6*	1150.4	1237.7	1327.2	1369.7
55°	*1029.5*	1063.1	1159.3	1251.1	1295.8
57.5°	*944.5*	980.3	1081.0	1177.2	1224.2
60°	*859.4*	897.5	1002.7	1103.4	1150.4
62.5°	*772.1*	812.4	924.3	1029.5	1076.5
65°	*689.3*	729.6	846.0	955.7	1002.7
67.5°	*604.3*	649.0	769.9	881.8	931.0
70°	*519.2*	568.5	696.0	807.9	857.2
72.5°	*434.2*	490.1	619.9	731.8	767.7
75°	*351.4*	416.3	548.3	615.5	622.2
77.5°	*275.3*	342.4	467.8	494.6	508.0
80°	*201.4*	275.3	351.4	384.9	382.7
82.5°	*134.3*	210.4	252.9	257.4	252.9
85°	*78.3*	129.8	141.0	138.8	134.3
87.5°	*33.6*	51.5	44.8	38.0	31.3
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)