

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: P230471

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-RDP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.6 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

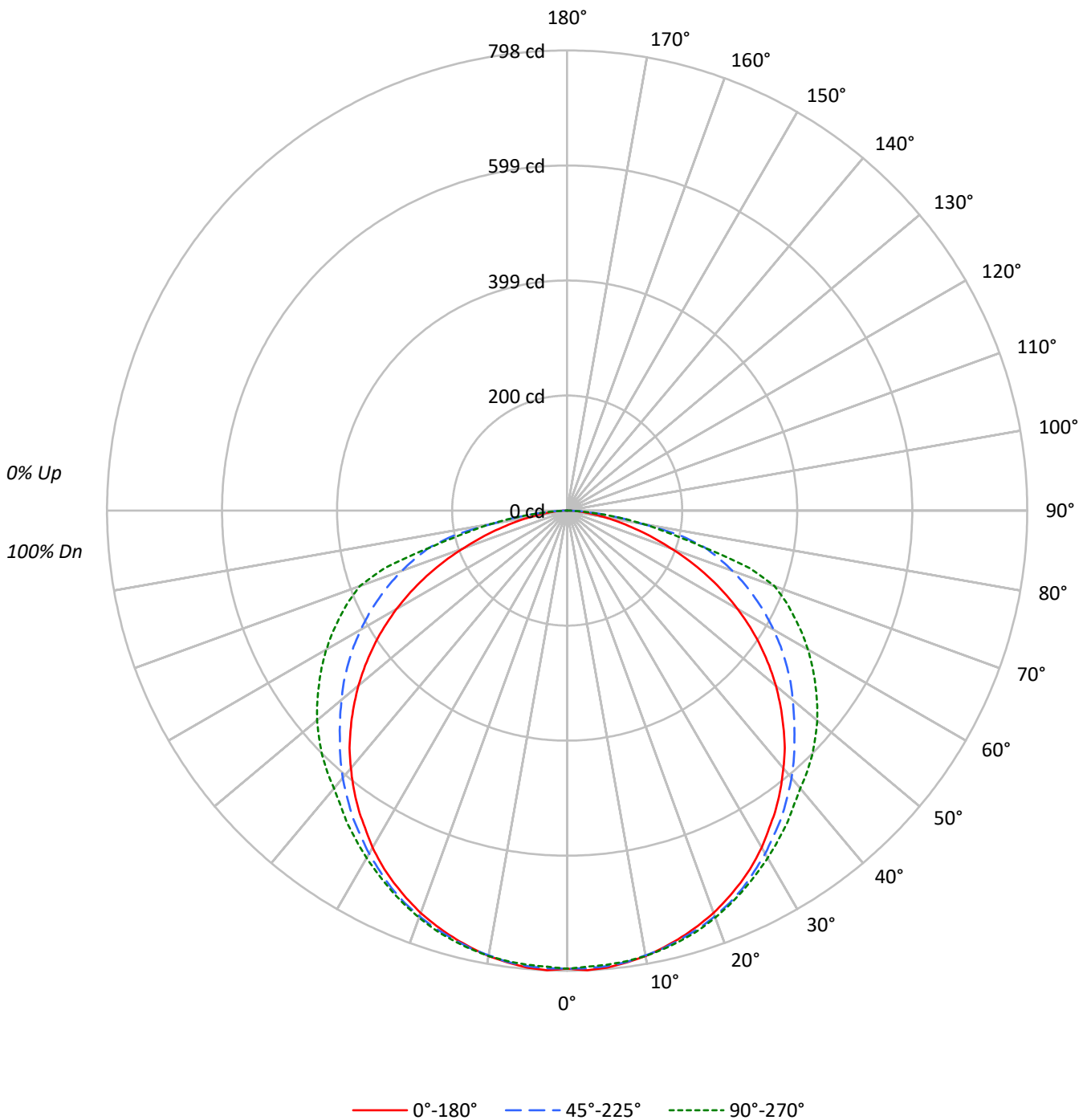
Input Watts (W): 29.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1069	1069	1069
5°	1074	1071	1068
10°	1072	1070	1072
15°	1067	1070	1074
20°	1063	1072	1075
25°	1057	1071	1077
30°	1048	1067	1081
35°	1037	1066	1090
40°	1025	1064	1105
45°	1009	1061	1143
50°	989	1069	1185
55°	961	1088	1232
60°	919	1112	1298
65°	856	1146	1382
70°	757	1198	1504
75°	635	1282	1263
80°	507	1013	1051
85°	400	685	628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.0
10°-20°	216.8	8.7
20°-30°	331.2	13.2
30°-40°	404.9	16.2
40°-50°	433.4	17.3
50°-60°	415.7	16.6
60°-70°	351.0	14.0
70°-80°	224.3	9.0
80°-90°	53.0	2.1
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°	623.3	24.9
0°-40°	1028.2	41.0
0°-60°	1877.3	74.9
0°-90°	2505.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	796	791	793	792	791	76
15°	766	764	768	771	771	216
25°	712	710	722	724	725	328
35°	632	636	649	657	664	395
45°	530	539	558	583	601	409
55°	410	423	464	506	525	365
65°	269	295	360	411	434	265
75°	122	174	247	252	243	131
85°	26	43	44	43	41	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.3	794.3	794.3	794.3	794.3
2.5°	798.0	793.1	794.3	794.3	791.8
5°	795.5	790.6	793.1	791.8	790.6
7.5°	790.6	786.9	789.4	789.4	788.1
10°	784.4	780.7	783.2	784.4	784.4
12.5°	775.8	773.3	777.0	777.0	778.3
15°	765.9	763.5	768.4	770.9	770.9
17.5°	754.8	753.6	759.8	761.0	762.2
20°	742.5	741.3	748.7	748.7	751.1
22.5°	727.7	726.5	736.3	736.3	738.8
25°	711.7	710.4	721.5	724.0	725.2
27.5°	694.4	693.2	704.3	708.0	710.4
30°	674.7	674.7	687.0	691.9	695.6
32.5°	652.5	656.2	667.3	674.7	679.6
35°	631.5	636.4	648.8	657.4	663.6
37.5°	608.1	613.0	626.6	637.7	645.1
40°	583.4	589.6	605.6	617.9	629.0
42.5°	558.7	564.9	582.2	600.7	615.5
45°	530.4	539.0	557.5	583.4	600.7
47.5°	502.0	510.6	534.1	566.1	583.4
50°	472.4	482.2	510.6	547.6	566.1
52.5°	441.5	452.6	488.4	527.9	546.4
55°	409.5	423.0	463.7	505.7	525.4
57.5°	376.2	391.0	439.1	483.5	504.5
60°	341.6	360.1	413.2	460.0	482.2
62.5°	305.9	328.1	387.3	435.4	458.8
65°	268.9	294.8	360.1	410.7	434.1
67.5°	230.6	265.2	333.0	386.0	409.5
70°	192.4	233.1	304.6	358.9	382.3
72.5°	156.6	203.5	276.3	326.8	331.8
75°	122.1	173.9	246.7	251.6	243.0
77.5°	91.3	144.3	203.5	181.3	180.1
80°	65.4	115.9	130.7	134.4	135.7
82.5°	43.2	87.6	85.1	87.6	86.3
85°	25.9	43.2	44.4	43.2	40.7
87.5°	12.3	16.0	12.3	11.1	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)