

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: P258867

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4030.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

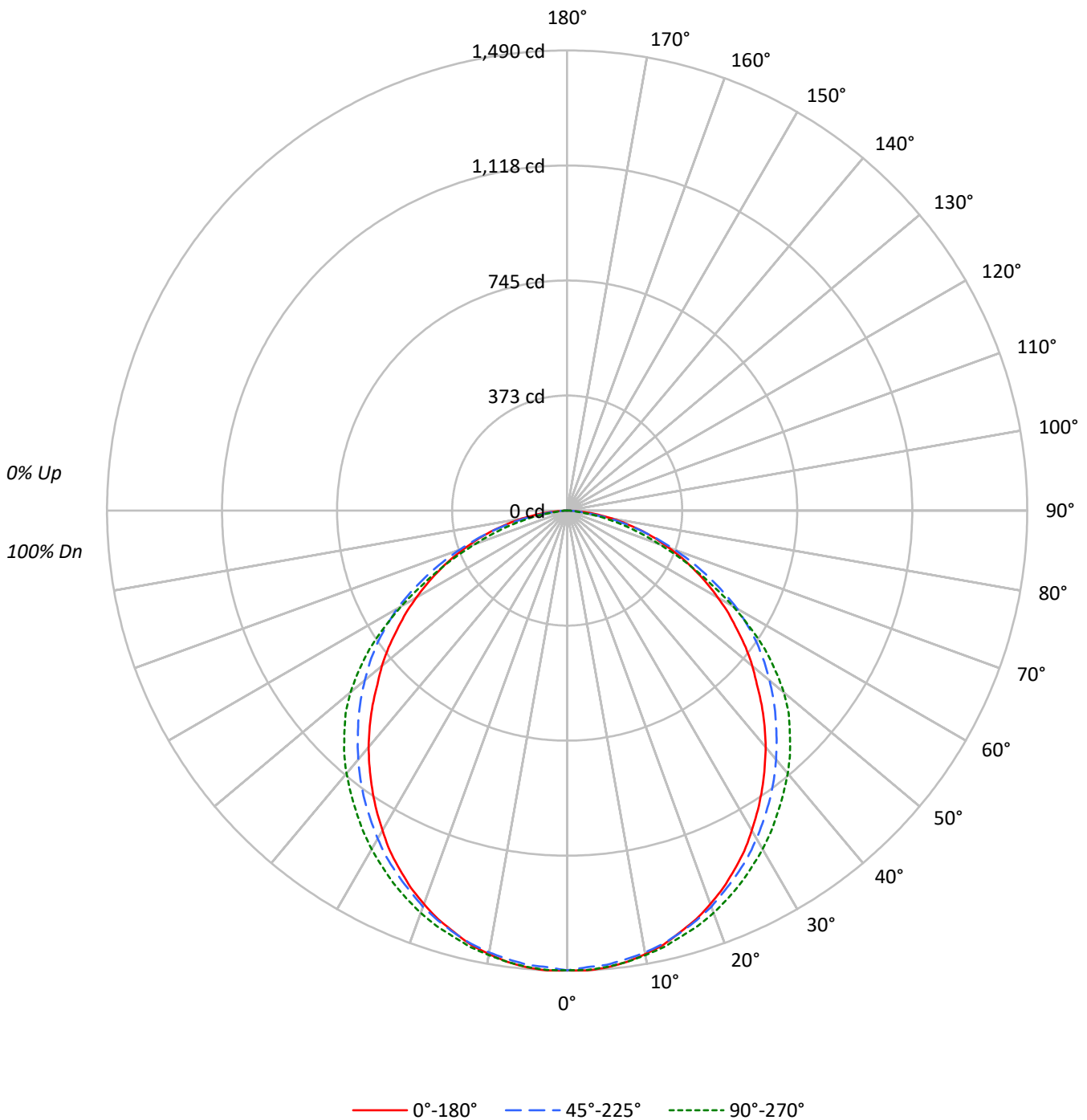
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4006	4006	4006
5°	4012	3987	4007
10°	3985	3970	3994
15°	3937	3942	3977
20°	3883	3908	3970
25°	3807	3860	3951
30°	3716	3811	3934
35°	3616	3758	3911
40°	3514	3697	3905
45°	3390	3636	3882
50°	3278	3579	3834
55°	3151	3521	3665
60°	3035	3421	3344
65°	2904	3202	2939
70°	2741	2910	2487
75°	2558	2520	2053
80°	2255	1948	1503
85°	1775	942	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.5
10°-20°	400.7	9.9
20°-30°	601.4	14.9
30°-40°	717.0	17.8
40°-50°	738.5	18.3
50°-60°	658.2	16.3
60°-70°	474.2	11.8
70°-80°	248.0	6.2
80°-90°	51.3	1.3
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°	1142.8	28.4
0°-40°	1859.8	46.1
0°-60°	3256.5	80.8
0°-90°	4030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1485	1482	1476	1485	1483	141
15°	1413	1415	1415	1429	1428	399
25°	1282	1289	1300	1325	1331	591
35°	1101	1115	1144	1182	1191	688
45°	891	910	955	1009	1020	687
55°	672	693	751	785	781	602
65°	456	472	503	480	462	452
75°	246	259	242	210	198	261
85°	58	50	30	27	27	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.7	1488.7	1488.7	1488.7	1488.7
2.5°	1490.5	1486.9	1479.7	1488.7	1488.7
5°	1485.1	1481.5	1476.1	1485.1	1483.3
7.5°	1474.3	1470.7	1465.3	1476.1	1474.3
10°	1458.2	1456.4	1452.8	1463.5	1461.7
12.5°	1440.2	1438.4	1436.6	1447.4	1447.4
15°	1413.3	1415.1	1415.1	1429.4	1427.6
17.5°	1388.1	1389.9	1391.7	1409.7	1409.7
20°	1355.8	1357.6	1364.8	1384.5	1386.3
22.5°	1321.7	1323.5	1332.5	1355.8	1359.4
25°	1282.2	1289.4	1300.1	1325.3	1330.7
27.5°	1242.7	1248.1	1266.0	1294.7	1298.3
30°	1196.0	1206.7	1226.5	1258.8	1266.0
32.5°	1149.3	1161.9	1185.2	1221.1	1230.1
35°	1100.8	1115.2	1143.9	1181.6	1190.6
37.5°	1050.5	1063.1	1099.0	1138.5	1151.1
40°	1000.2	1012.8	1052.3	1097.2	1111.6
42.5°	946.4	964.3	1003.8	1054.1	1068.5
45°	890.7	910.4	955.3	1009.2	1020.0
47.5°	833.2	854.8	906.9	960.7	973.3
50°	783.0	802.7	854.8	906.9	915.8
52.5°	729.1	747.0	804.5	847.6	849.4
55°	671.6	693.2	750.6	784.7	781.2
57.5°	619.5	637.5	693.2	711.1	700.3
60°	563.9	580.0	635.7	637.5	621.3
62.5°	510.0	526.2	569.3	556.7	536.9
65°	456.1	472.3	502.8	479.5	461.5
67.5°	404.0	418.4	436.4	405.8	387.9
70°	348.4	368.1	369.9	334.0	316.1
72.5°	299.9	310.7	307.1	273.0	256.8
75°	246.0	258.6	242.4	210.1	197.5
77.5°	195.7	204.7	183.2	152.6	143.7
80°	145.5	150.8	125.7	102.4	97.0
82.5°	98.8	98.8	71.8	55.7	50.3
85°	57.5	50.3	30.5	26.9	26.9
87.5°	19.8	12.6	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)