

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: P389262

Luminaire Tested: **22CZ2-44VHE-S-UNV-L950-CD1-SDWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P389262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-S-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4294.5 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

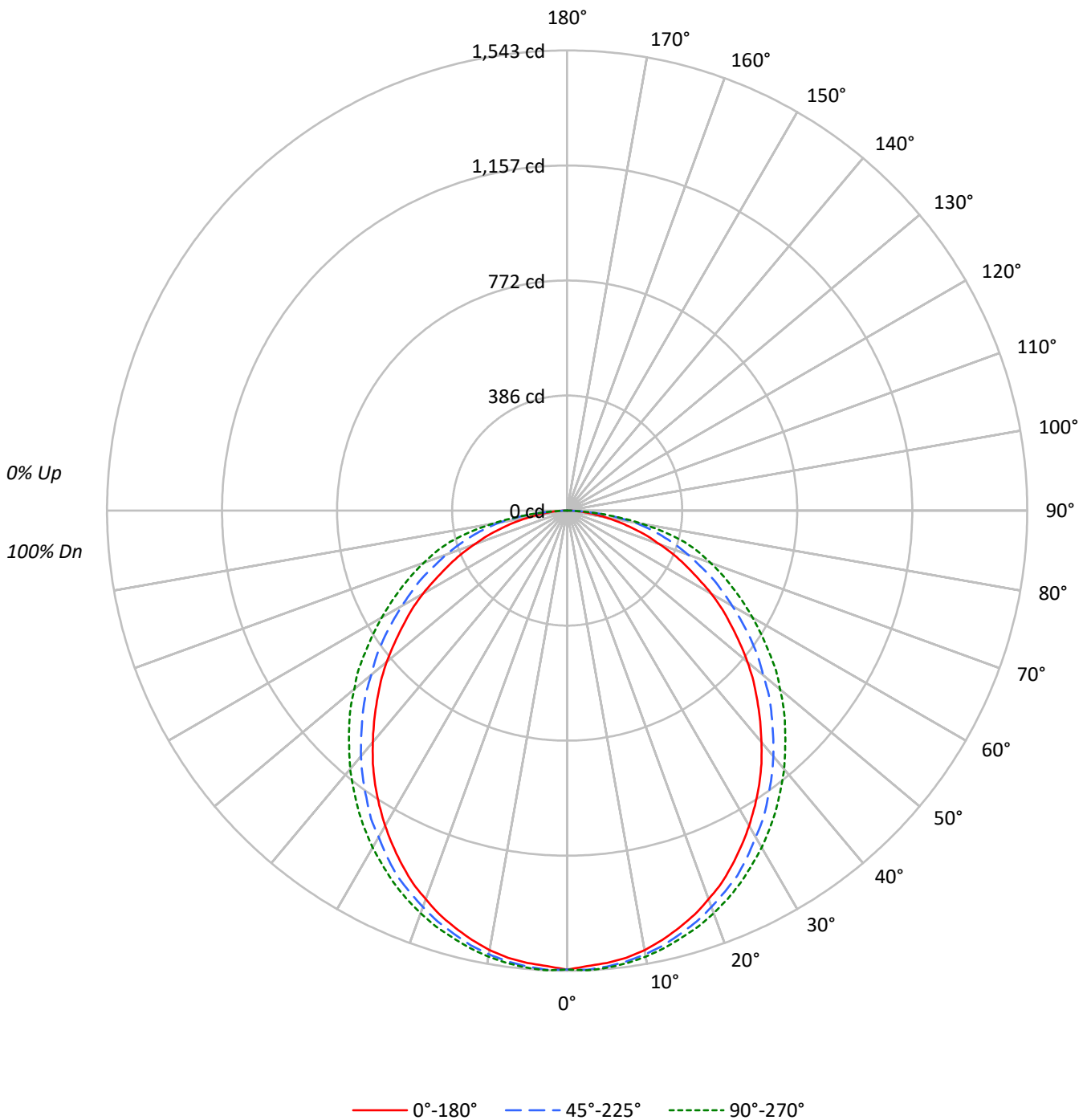
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4141	4141	4141
5°	4113	4146	4157
10°	4090	4128	4150
15°	4036	4092	4131
20°	3971	4051	4114
25°	3891	4010	4087
30°	3792	3929	4053
35°	3686	3857	4015
40°	3562	3780	3977
45°	3432	3691	3935
50°	3305	3590	3900
55°	3149	3525	3873
60°	3009	3440	3860
65°	2807	3419	3904
70°	2585	3389	4020
75°	2333	3437	4230
80°	2018	3539	3975
85°	1670	2970	2970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.4
10°-20°	414.1	9.6
20°-30°	619.7	14.4
30°-40°	733.8	17.1
40°-50°	747.9	17.4
50°-60°	670.3	15.6
60°-70°	524.8	12.2
70°-80°	338.4	7.9
80°-90°	100.0	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°	1179.3	27.5
0°-40°	1913.2	44.5
0°-60°	3331.3	77.6
0°-90°	4294.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4294.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1523	1527	1535	1537	1539	145
15°	1449	1457	1469	1481	1483	408
25°	1310	1322	1350	1368	1377	603
35°	1122	1136	1174	1210	1222	701
45°	902	922	970	1020	1034	696
55°	671	693	751	804	826	602
65°	441	467	537	589	613	438
75°	224	258	331	387	407	241
85°	54	74	96	96	96	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1528.8	1532.8	1540.9	1542.9	1542.9
5°	1522.8	1526.8	1534.8	1536.8	1538.9
7.5°	1512.8	1514.8	1524.8	1528.8	1530.8
10°	1496.8	1500.8	1510.8	1516.8	1518.8
12.5°	1474.7	1480.7	1492.8	1500.8	1502.8
15°	1448.7	1456.7	1468.7	1480.7	1482.7
17.5°	1420.6	1428.6	1444.7	1458.7	1462.7
20°	1386.6	1396.6	1414.6	1430.7	1436.7
22.5°	1352.5	1360.5	1382.6	1402.6	1408.6
25°	1310.4	1322.5	1350.5	1368.5	1376.6
27.5°	1266.3	1280.4	1308.4	1332.5	1340.5
30°	1220.3	1234.3	1264.3	1294.4	1304.4
32.5°	1172.2	1188.2	1224.3	1254.3	1264.3
35°	1122.1	1136.1	1174.2	1210.2	1222.3
37.5°	1070.0	1082.0	1126.1	1164.2	1176.2
40°	1013.9	1029.9	1076.0	1120.1	1132.1
42.5°	957.8	975.8	1021.9	1070.0	1082.0
45°	901.7	921.7	969.8	1019.9	1033.9
47.5°	847.6	863.6	917.7	965.8	985.8
50°	789.5	805.5	857.6	911.7	931.7
52.5°	729.4	751.4	807.5	859.6	883.6
55°	671.2	693.3	751.4	803.5	825.5
57.5°	617.1	635.2	695.3	749.4	771.4
60°	559.0	575.1	639.2	697.3	717.3
62.5°	496.9	521.0	587.1	641.2	665.2
65°	440.8	466.9	537.0	589.1	613.1
67.5°	388.7	412.8	480.9	537.0	563.0
70°	328.6	360.7	430.8	486.9	510.9
72.5°	280.5	308.6	380.7	436.8	462.9
75°	224.4	258.5	330.6	386.7	406.8
77.5°	178.3	212.4	280.5	324.6	334.6
80°	130.2	164.3	228.4	250.5	256.5
82.5°	88.2	120.2	164.3	170.3	172.3
85°	54.1	74.1	96.2	96.2	96.2
87.5°	26.0	30.1	34.1	32.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)