

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: P390676

Luminaire Tested: **22CZ2-75VHE-RDP-UNV-L940-CD1-SWPD1-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: P390676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-RDP-UNV-L940-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4287.8 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

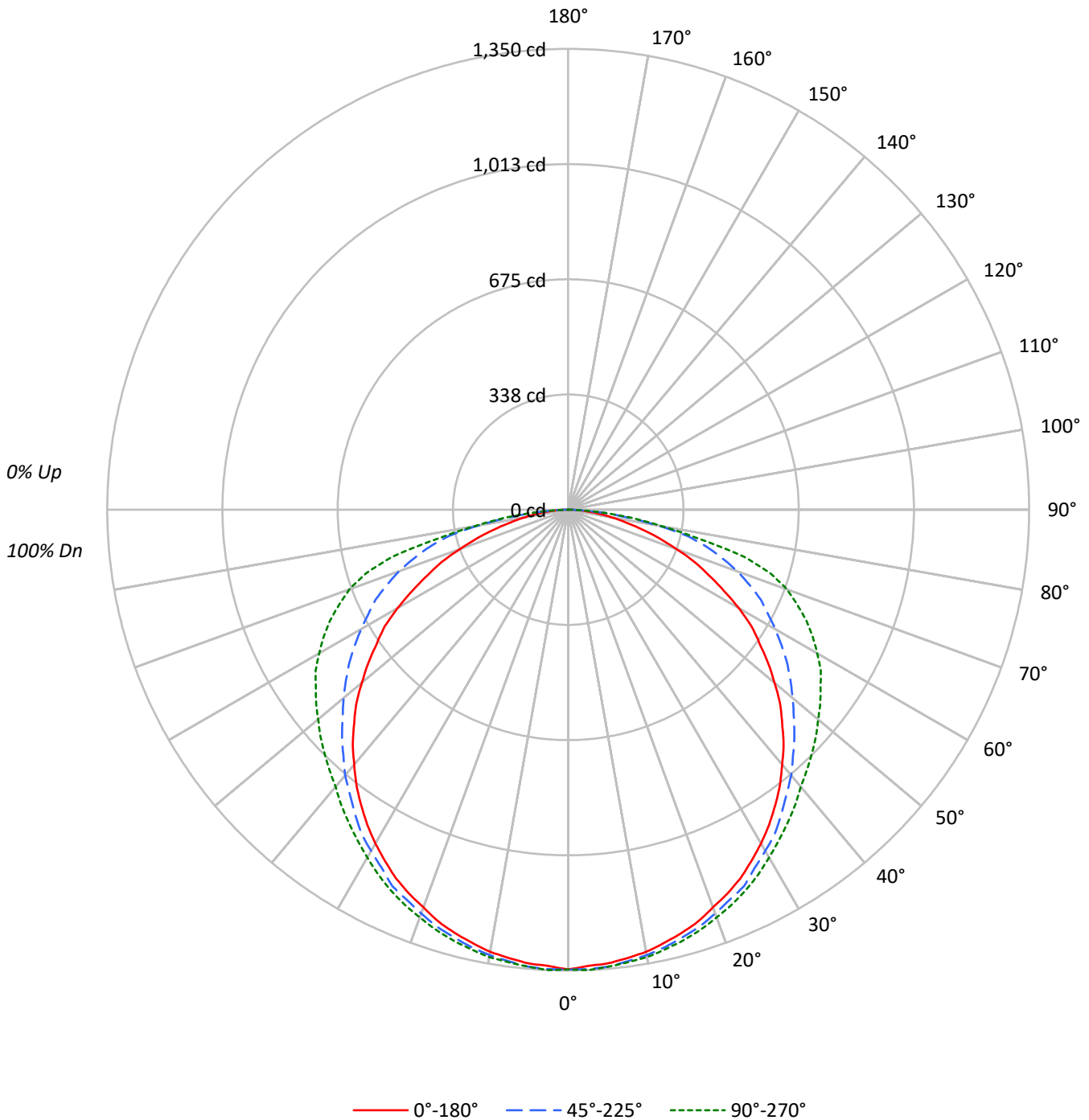
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3604	3630	3630
10°	3594	3620	3637
15°	3577	3612	3638
20°	3550	3604	3640
25°	3540	3615	3653
30°	3509	3587	3656
35°	3471	3575	3679
40°	3424	3568	3723
45°	3373	3565	3841
50°	3301	3592	4001
55°	3211	3670	4232
60°	3106	3768	4533
65°	2892	3957	4900
70°	2655	4145	5360
75°	2329	4362	5543
80°	2004	4155	4350
85°	1754	3020	3310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.0
10°-20°	365.8	8.5
20°-30°	558.1	13.0
30°-40°	681.5	15.9
40°-50°	728.6	17.0
50°-60°	703.3	16.4
60°-70°	605.4	14.1
70°-80°	409.6	9.6
80°-90°	108.1	2.5
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°	1051.3	24.5
0°-40°	1732.8	40.4
0°-60°	3164.7	73.8
0°-90°	4287.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4287.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1334	1337	1344	1344	1344	127
15°	1284	1287	1296	1303	1306	362
25°	1192	1199	1218	1224	1230	549
35°	1057	1066	1088	1110	1120	661
45°	886	902	937	984	1009	684
55°	684	707	782	861	902	613
65°	454	498	621	719	770	452
75°	224	296	420	505	533	240
85°	57	79	98	101	107	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.9	1346.9	1346.9	1346.9	1346.9
2.5°	1337.4	1340.6	1346.9	1346.9	1350.0
5°	1334.3	1337.4	1343.7	1343.7	1343.7
7.5°	1324.8	1327.9	1334.3	1337.4	1337.4
10°	1315.3	1318.5	1324.8	1327.9	1331.1
12.5°	1299.6	1302.7	1312.2	1318.5	1318.5
15°	1283.8	1286.9	1296.4	1302.7	1305.9
17.5°	1264.9	1271.2	1280.6	1286.9	1290.1
20°	1239.6	1245.9	1258.6	1268.0	1271.2
22.5°	1217.5	1223.9	1236.5	1245.9	1252.2
25°	1192.3	1198.6	1217.5	1223.9	1230.2
27.5°	1160.8	1167.1	1182.9	1195.5	1204.9
30°	1129.2	1135.5	1154.5	1170.2	1176.5
32.5°	1094.5	1104.0	1126.1	1138.7	1148.2
35°	1056.7	1066.1	1088.2	1110.3	1119.8
37.5°	1018.8	1028.3	1050.4	1078.8	1091.4
40°	974.7	987.3	1015.7	1053.5	1059.8
42.5°	933.7	949.4	974.7	1018.8	1034.6
45°	886.3	902.1	936.8	984.1	1009.4
47.5°	842.2	858.0	895.8	952.6	984.1
50°	788.6	810.6	858.0	924.2	955.7
52.5°	738.1	757.0	820.1	892.7	930.5
55°	684.5	706.6	782.3	861.1	902.1
57.5°	637.2	656.1	741.3	829.6	876.9
60°	577.2	602.5	700.2	794.9	842.2
62.5°	514.1	552.0	659.2	757.0	807.5
65°	454.2	498.4	621.4	719.2	769.6
67.5°	400.6	447.9	574.1	678.2	725.5
70°	337.5	397.4	526.8	627.7	681.3
72.5°	280.7	347.0	473.1	574.1	621.4
75°	224.0	296.5	419.5	504.7	533.1
77.5°	173.5	242.9	359.6	384.8	388.0
80°	129.3	192.4	268.1	271.3	280.7
82.5°	88.3	135.6	173.5	189.3	192.4
85°	56.8	78.9	97.8	100.9	107.2
87.5°	25.2	28.4	34.7	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)