

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: P390726

Luminaire Tested: **22CZ2-80VHE-RDP-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: P390726  
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: 22CZ2-80VHE-RDP-UNV-L950-CD1-SDWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

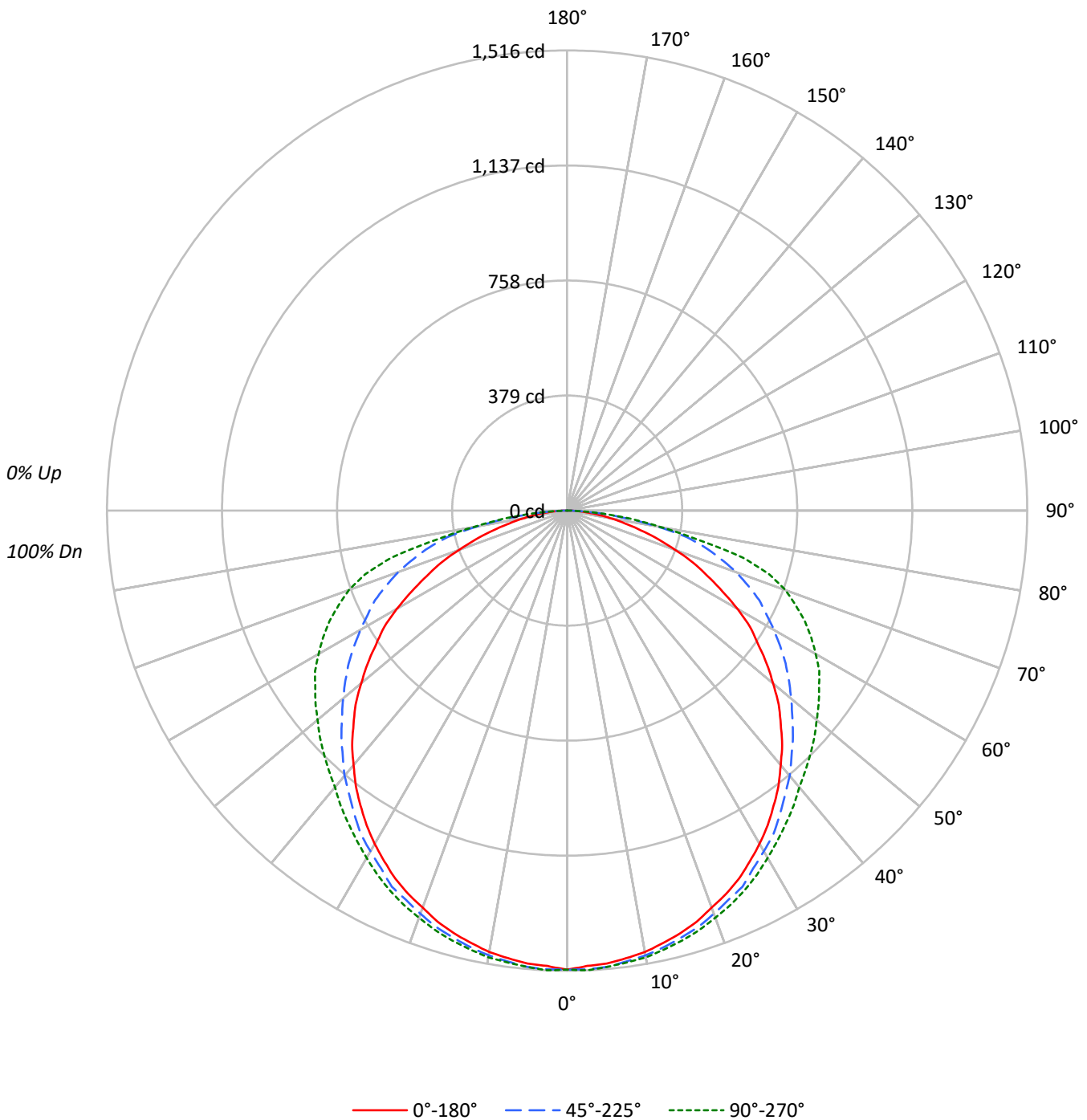
Lumens per Lamp: N/A  
Luminaire Lumens: 4814.6 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 59.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	4070	4070	4070
5°	4047	4076	4076
10°	4036	4065	4084
15°	4016	4055	4085
20°	3986	4047	4087
25°	3975	4059	4101
30°	3940	4028	4105
35°	3898	4014	4130
40°	3844	4006	4180
45°	3787	4003	4313
50°	3707	4033	4493
55°	3606	4121	4753
60°	3488	4232	5090
65°	3247	4443	5503
70°	2982	4654	6019
75°	2615	4898	6224
80°	2250	4666	4885
85°	1970	3390	3717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	3.0
10°-20°	410.8	8.5
20°-30°	626.7	13.0
30°-40°	765.2	15.9
40°-50°	818.2	17.0
50°-60°	789.7	16.4
60°-70°	679.8	14.1
70°-80°	459.9	9.6
80°-90°	121.4	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°	1180.5	24.5
0°-40°	1945.7	40.4
0°-60°	3553.5	73.8
0°-90°	4814.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4814.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1498	1502	1509	1509	1509	142
15°	1442	1445	1456	1463	1466	407
25°	1339	1346	1367	1374	1381	616
35°	1186	1197	1222	1247	1257	742
45°	995	1013	1052	1105	1133	768
55°	769	793	878	967	1013	689
65°	510	560	698	808	864	507
75°	252	333	471	567	599	270
85°	64	88	110	113	120	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1512.3	1512.3	1512.3	1512.3	1512.3
2.5°	1501.7	1505.3	1512.3	1512.3	1515.9
5°	1498.2	1501.7	1508.8	1508.8	1508.8
7.5°	1487.6	1491.1	1498.2	1501.7	1501.7
10°	1476.9	1480.5	1487.6	1491.1	1494.6
12.5°	1459.2	1462.8	1473.4	1480.5	1480.5
15°	1441.5	1445.1	1455.7	1462.8	1466.3
17.5°	1420.3	1427.3	1438.0	1445.1	1448.6
20°	1391.9	1399.0	1413.2	1423.8	1427.3
22.5°	1367.1	1374.2	1388.4	1399.0	1406.1
25°	1338.8	1345.9	1367.1	1374.2	1381.3
27.5°	1303.4	1310.5	1328.2	1342.3	1353.0
30°	1268.0	1275.0	1296.3	1314.0	1321.1
32.5°	1229.0	1239.6	1264.4	1278.6	1289.2
35°	1186.5	1197.1	1221.9	1246.7	1257.3
37.5°	1144.0	1154.6	1179.4	1211.3	1225.5
40°	1094.4	1108.6	1140.5	1183.0	1190.0
42.5°	1048.4	1066.1	1094.4	1144.0	1161.7
45°	995.2	1013.0	1051.9	1105.0	1133.4
47.5°	945.7	963.4	1005.9	1069.6	1105.0
50°	885.5	910.2	963.4	1037.7	1073.2
52.5°	828.8	850.0	920.9	1002.3	1044.8
55°	768.6	793.4	878.4	966.9	1013.0
57.5°	715.4	736.7	832.3	931.5	984.6
60°	648.1	676.5	786.3	892.5	945.7
62.5°	577.3	619.8	740.2	850.0	906.7
65°	510.0	559.6	697.7	807.5	864.2
67.5°	449.8	502.9	644.6	761.5	814.6
70°	379.0	446.3	591.5	704.8	765.0
72.5°	315.2	389.6	531.3	644.6	697.7
75°	251.5	332.9	471.1	566.7	598.6
77.5°	194.8	272.7	403.8	432.1	435.6
80°	145.2	216.0	301.1	304.6	315.2
82.5°	99.2	152.3	194.8	212.5	216.0
85°	63.8	88.5	109.8	113.3	120.4
87.5°	28.3	31.9	39.0	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)