

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: P390580

Luminaire Tested: **22CZ2-65VHE-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: P390580
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: 22CZ2-65VHE-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: 3721.5 lumens
Efficiency: N/A
Efficacy: 77.7 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

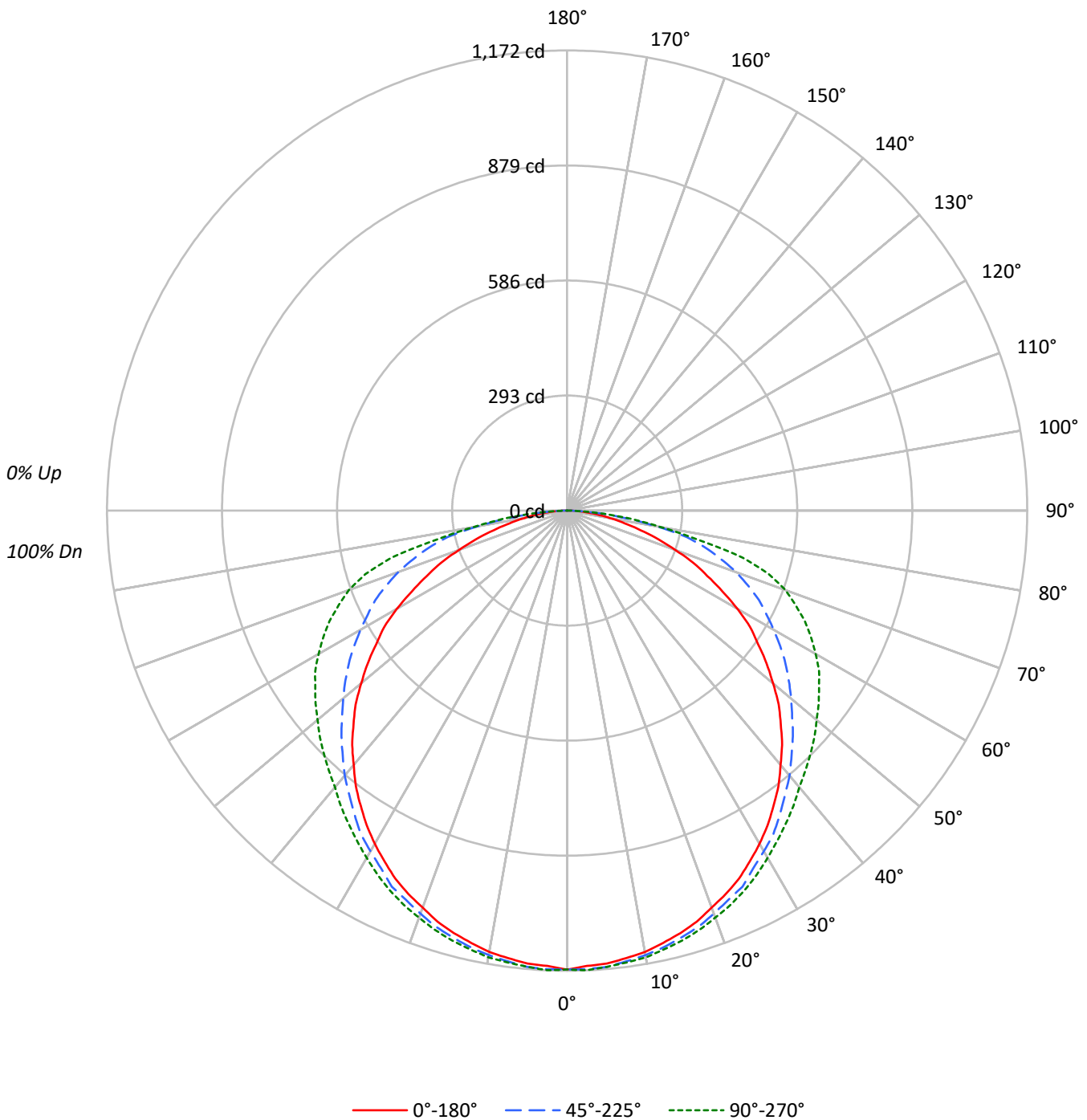
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3146	3146	3146
5°	3128	3150	3150
10°	3119	3142	3157
15°	3104	3135	3158
20°	3081	3128	3159
25°	3072	3138	3170
30°	3045	3113	3173
35°	3013	3103	3193
40°	2971	3097	3231
45°	2928	3094	3334
50°	2865	3117	3473
55°	2787	3185	3674
60°	2696	3271	3934
65°	2510	3434	4253
70°	2305	3597	4652
75°	2021	3786	4811
80°	1739	3606	3777
85°	1522	2621	2875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.0
10°-20°	317.5	8.5
20°-30°	484.4	13.0
30°-40°	591.5	15.9
40°-50°	632.4	17.0
50°-60°	610.4	16.4
60°-70°	525.5	14.1
70°-80°	355.5	9.6
80°-90°	93.8	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°	912.5	24.5
0°-40°	1503.9	40.4
0°-60°	2746.7	73.8
0°-90°	3721.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3721.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1158	1161	1166	1166	1166	110
15°	1114	1117	1125	1131	1133	314
25°	1035	1040	1057	1062	1068	476
35°	917	925	944	964	972	574
45°	769	783	813	854	876	594
55°	594	613	679	747	783	532
65°	394	433	539	624	668	392
75°	194	257	364	438	463	209
85°	49	68	85	88	93	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.0	1169.0	1169.0	1169.0	1169.0
2.5°	1160.8	1163.5	1169.0	1169.0	1171.7
5°	1158.0	1160.8	1166.3	1166.3	1166.3
7.5°	1149.8	1152.6	1158.0	1160.8	1160.8
10°	1141.6	1144.3	1149.8	1152.6	1155.3
12.5°	1127.9	1130.7	1138.9	1144.3	1144.3
15°	1114.2	1117.0	1125.2	1130.7	1133.4
17.5°	1097.8	1103.3	1111.5	1117.0	1119.7
20°	1075.9	1081.4	1092.3	1100.5	1103.3
22.5°	1056.7	1062.2	1073.2	1081.4	1086.9
25°	1034.8	1040.3	1056.7	1062.2	1067.7
27.5°	1007.5	1012.9	1026.6	1037.6	1045.8
30°	980.1	985.6	1002.0	1015.7	1021.2
32.5°	950.0	958.2	977.4	988.3	996.5
35°	917.1	925.3	944.5	963.7	971.9
37.5°	884.3	892.5	911.6	936.3	947.2
40°	845.9	856.9	881.5	914.4	919.9
42.5°	810.4	824.0	845.9	884.3	898.0
45°	769.3	783.0	813.1	854.2	876.1
47.5°	731.0	744.6	777.5	826.8	854.2
50°	684.4	703.6	744.6	802.1	829.5
52.5°	640.6	657.0	711.8	774.8	807.6
55°	594.1	613.2	678.9	747.4	783.0
57.5°	553.0	569.4	643.4	720.0	761.1
60°	501.0	522.9	607.8	689.9	731.0
62.5°	446.2	479.1	572.2	657.0	700.8
65°	394.2	432.6	539.3	624.2	668.0
67.5°	347.7	388.8	498.3	588.6	629.7
70°	292.9	344.9	457.2	544.8	591.3
72.5°	243.7	301.1	410.7	498.3	539.3
75°	194.4	257.3	364.1	438.0	462.7
77.5°	150.6	210.8	312.1	334.0	336.7
80°	112.2	167.0	232.7	235.4	243.7
82.5°	76.7	117.7	150.6	164.3	167.0
85°	49.3	68.4	84.9	87.6	93.1
87.5°	21.9	24.6	30.1	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)