

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: P390669

Luminaire Tested: **22CZ2-75VHE-RDP-UNV-L930-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: P390669
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-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091.5 lumens
Efficiency: N/A
Efficacy: 74.8 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

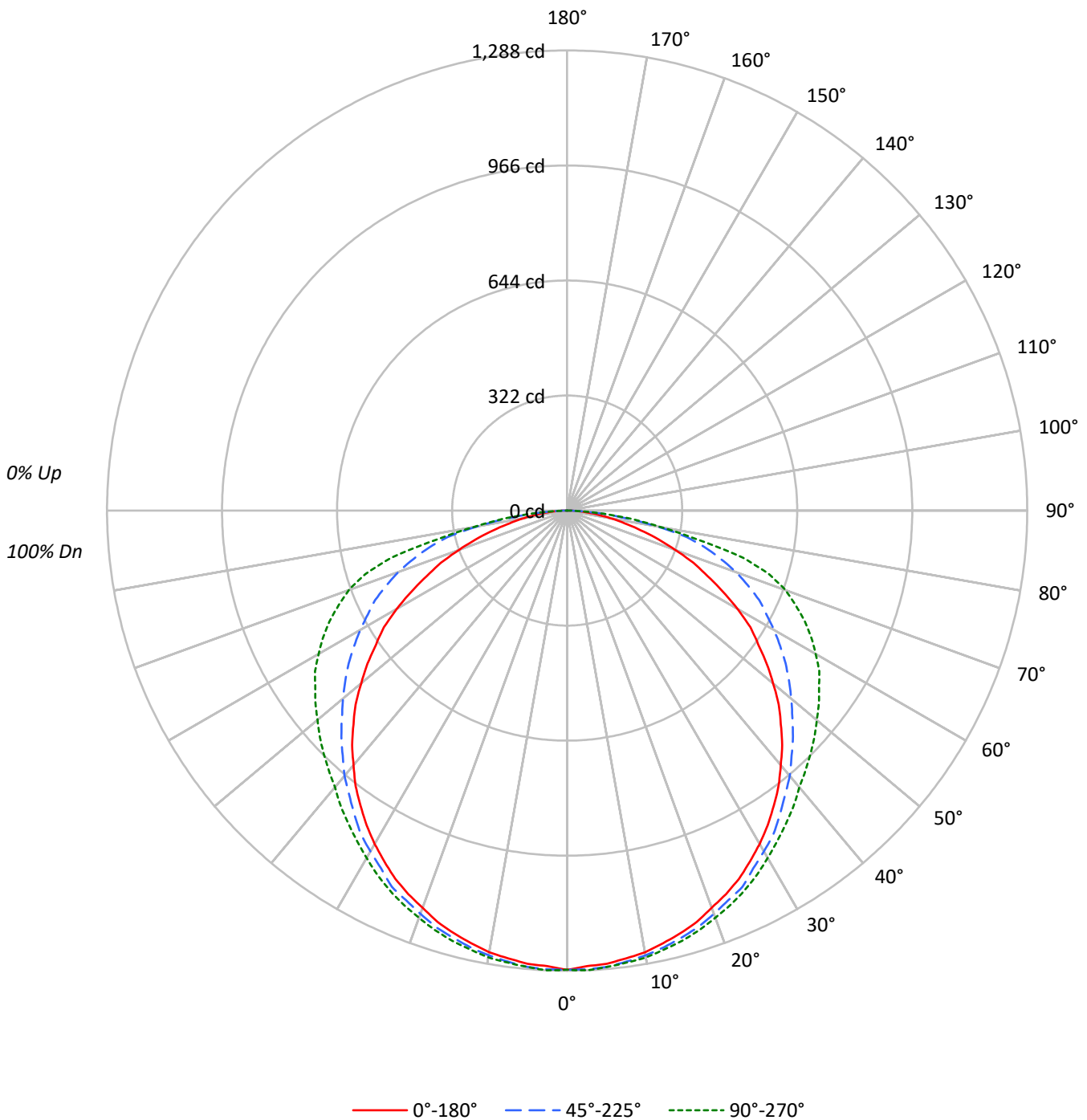
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3458	3458	3458
5°	3439	3464	3464
10°	3430	3454	3471
15°	3413	3446	3472
20°	3387	3439	3474
25°	3378	3450	3485
30°	3348	3423	3489
35°	3312	3411	3510
40°	3267	3405	3553
45°	3219	3402	3666
50°	3150	3427	3818
55°	3064	3502	4039
60°	2964	3596	4325
65°	2760	3775	4676
70°	2534	3954	5115
75°	2222	4162	5289
80°	1912	3964	4152
85°	1673	2881	3159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.0
10°-20°	349.1	8.5
20°-30°	532.5	13.0
30°-40°	650.3	15.9
40°-50°	695.3	17.0
50°-60°	671.1	16.4
60°-70°	577.7	14.1
70°-80°	390.9	9.6
80°-90°	103.1	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°	1003.2	24.5
0°-40°	1653.4	40.4
0°-60°	3019.8	73.8
0°-90°	4091.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4091.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1273	1276	1282	1282	1282	121
15°	1225	1228	1237	1243	1246	346
25°	1138	1144	1162	1168	1174	524
35°	1008	1017	1038	1060	1068	631
45°	846	861	894	939	963	653
55°	653	674	746	822	861	585
65°	433	476	593	686	734	431
75°	214	283	400	482	509	229
85°	54	75	93	96	102	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.2	1285.2	1285.2	1285.2	1285.2
2.5°	1276.2	1279.2	1285.2	1285.2	1288.2
5°	1273.2	1276.2	1282.2	1282.2	1282.2
7.5°	1264.1	1267.2	1273.2	1276.2	1276.2
10°	1255.1	1258.1	1264.1	1267.2	1270.2
12.5°	1240.1	1243.1	1252.1	1258.1	1258.1
15°	1225.0	1228.0	1237.1	1243.1	1246.1
17.5°	1207.0	1213.0	1222.0	1228.0	1231.0
20°	1182.9	1188.9	1200.9	1210.0	1213.0
22.5°	1161.8	1167.8	1179.9	1188.9	1194.9
25°	1137.7	1143.7	1161.8	1167.8	1173.8
27.5°	1107.6	1113.6	1128.7	1140.7	1149.8
30°	1077.5	1083.6	1101.6	1116.7	1122.7
32.5°	1044.4	1053.5	1074.5	1086.6	1095.6
35°	1008.3	1017.3	1038.4	1059.5	1068.5
37.5°	972.2	981.2	1002.3	1029.4	1041.4
40°	930.0	942.1	969.2	1005.3	1011.3
42.5°	890.9	906.0	930.0	972.2	987.2
45°	845.8	860.8	893.9	939.1	963.2
47.5°	803.6	818.7	854.8	909.0	939.1
50°	752.5	773.5	818.7	881.9	912.0
52.5°	704.3	722.4	782.6	851.8	887.9
55°	653.1	674.2	746.4	821.7	860.8
57.5°	608.0	626.1	707.3	791.6	836.7
60°	550.8	574.9	668.2	758.5	803.6
62.5°	490.6	526.7	629.1	722.4	770.5
65°	433.4	475.6	592.9	686.2	734.4
67.5°	382.3	427.4	547.8	647.1	692.3
70°	322.1	379.2	502.6	599.0	650.1
72.5°	267.9	331.1	451.5	547.8	592.9
75°	213.7	282.9	400.3	481.6	508.7
77.5°	165.5	231.8	343.1	367.2	370.2
80°	123.4	183.6	255.8	258.8	267.9
82.5°	84.3	129.4	165.5	180.6	183.6
85°	54.2	75.2	93.3	96.3	102.3
87.5°	24.1	27.1	33.1	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)