

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: P388469

Luminaire Tested: **22CZ2-75VHE-UNV-L940-CD1-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: P388469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-UNV-L940-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

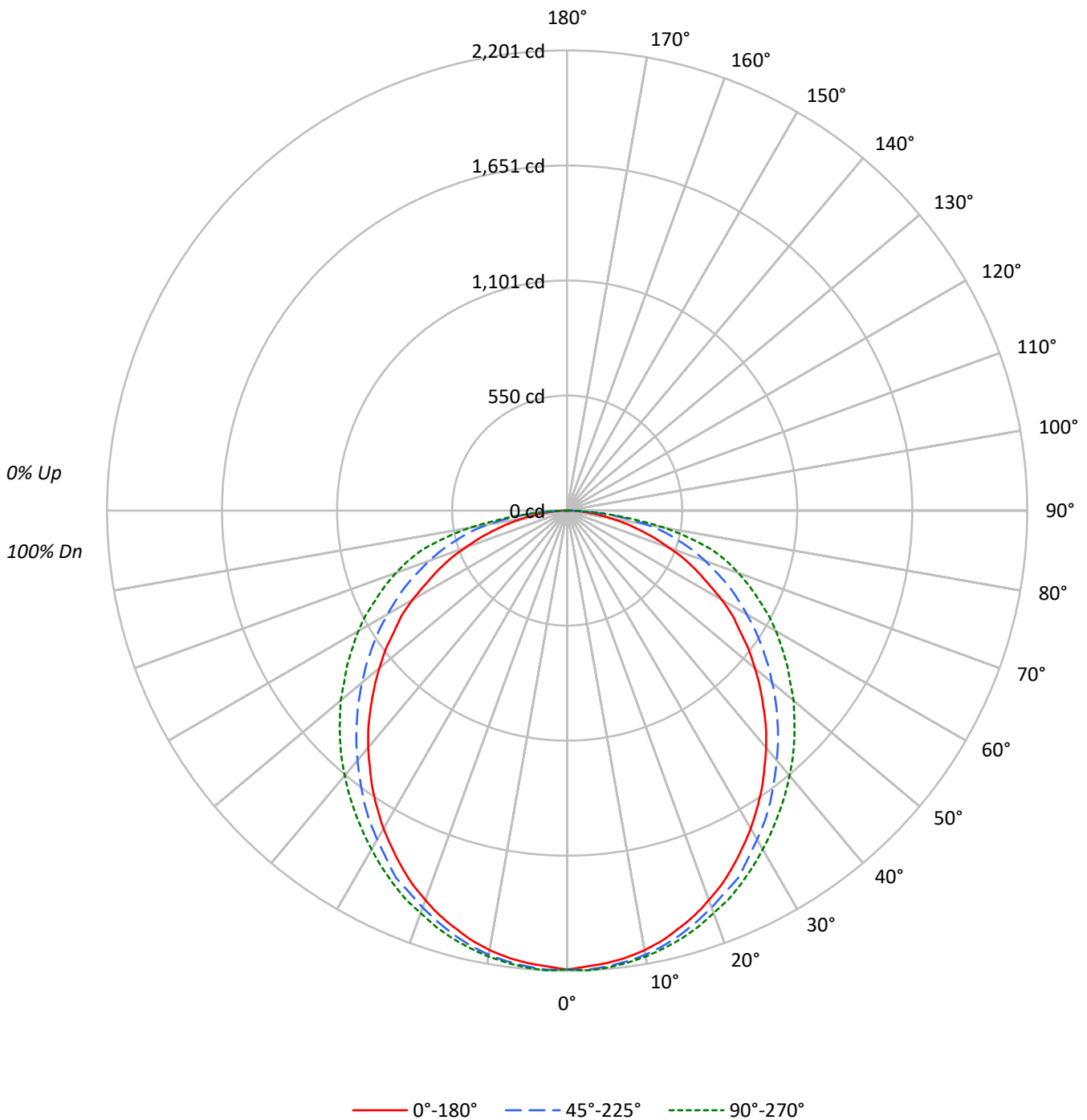
Lumens per Lamp: N/A
Luminaire Lumens: 6455.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	101	96	93	96	93	90		92	90	87		89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5907	5907	5907
5°	5869	5912	5929
10°	5833	5893	5920
15°	5761	5850	5902
20°	5676	5785	5867
25°	5574	5753	5847
30°	5458	5646	5814
35°	5332	5572	5802
40°	5200	5479	5814
45°	5053	5416	5851
50°	4907	5359	5918
55°	4739	5335	6021
60°	4599	5334	6206
65°	4369	5421	6432
70°	4074	5523	6848
75°	3732	5713	7398
80°	3248	5957	7285
85°	2844	5295	5786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	3.2
10°-20°	591.3	9.2
20°-30°	887.6	13.7
30°-40°	1060.6	16.4
40°-50°	1102.9	17.1
50°-60°	1022.2	15.8
60°-70°	838.4	13.0
70°-80°	566.8	8.8
80°-90°	178.1	2.8
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°	1686.4	26.1
0°-40°	2747.0	42.6
0°-60°	4872.1	75.5
0°-90°	6455.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6455.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2173	2176	2189	2192	2195	206
15°	2068	2077	2100	2112	2119	583
25°	1877	1893	1938	1960	1969	865
35°	1623	1645	1696	1747	1766	1015
45°	1328	1353	1423	1506	1537	1025
55°	1010	1042	1137	1239	1283	908
65°	686	724	851	962	1010	678
75°	359	419	550	661	712	381
85°	92	127	172	191	187	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2195.0	2195.0	2195.0	2195.0	2195.0
2.5°	2182.2	2188.6	2198.1	2201.3	2201.3
5°	2172.7	2175.9	2188.6	2191.8	2195.0
7.5°	2156.8	2163.2	2175.9	2179.1	2182.2
10°	2134.6	2141.0	2156.8	2163.2	2166.4
12.5°	2106.0	2112.4	2131.4	2141.0	2144.1
15°	2067.9	2077.4	2099.7	2112.4	2118.7
17.5°	2029.8	2039.3	2061.5	2080.6	2087.0
20°	1982.1	2004.4	2020.2	2045.7	2048.8
22.5°	1934.5	1947.2	1975.8	2001.2	2013.9
25°	1877.3	1893.2	1937.7	1959.9	1969.4
27.5°	1817.0	1839.2	1874.1	1909.1	1921.8
30°	1756.6	1772.5	1817.0	1858.2	1871.0
32.5°	1689.9	1712.1	1759.8	1801.1	1820.1
35°	1623.2	1645.4	1696.2	1747.1	1766.1
37.5°	1550.1	1575.5	1626.4	1686.7	1712.1
40°	1480.2	1499.3	1559.7	1632.7	1655.0
42.5°	1407.2	1429.4	1493.0	1572.4	1597.8
45°	1327.8	1353.2	1423.1	1505.7	1537.4
47.5°	1251.5	1276.9	1353.2	1435.8	1473.9
50°	1172.1	1203.9	1280.1	1375.4	1413.5
52.5°	1095.9	1124.5	1210.2	1308.7	1343.7
55°	1010.1	1041.9	1137.2	1238.8	1283.3
57.5°	940.2	962.5	1067.3	1172.1	1216.6
60°	854.5	883.1	991.1	1102.2	1153.1
62.5°	762.4	810.0	921.2	1035.5	1086.4
65°	686.1	724.2	851.3	962.5	1010.1
67.5°	606.7	648.0	771.9	889.4	943.4
70°	517.8	571.8	702.0	819.5	870.4
72.5°	438.4	495.5	628.9	743.3	797.3
75°	358.9	419.3	549.5	660.7	711.5
77.5°	282.7	349.4	476.5	562.2	594.0
80°	209.6	273.2	384.4	444.7	470.1
82.5°	146.1	200.1	282.7	314.5	320.8
85°	92.1	127.1	171.5	190.6	187.4
87.5°	41.3	50.8	63.5	69.9	66.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)