

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: P276959

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4619.1 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

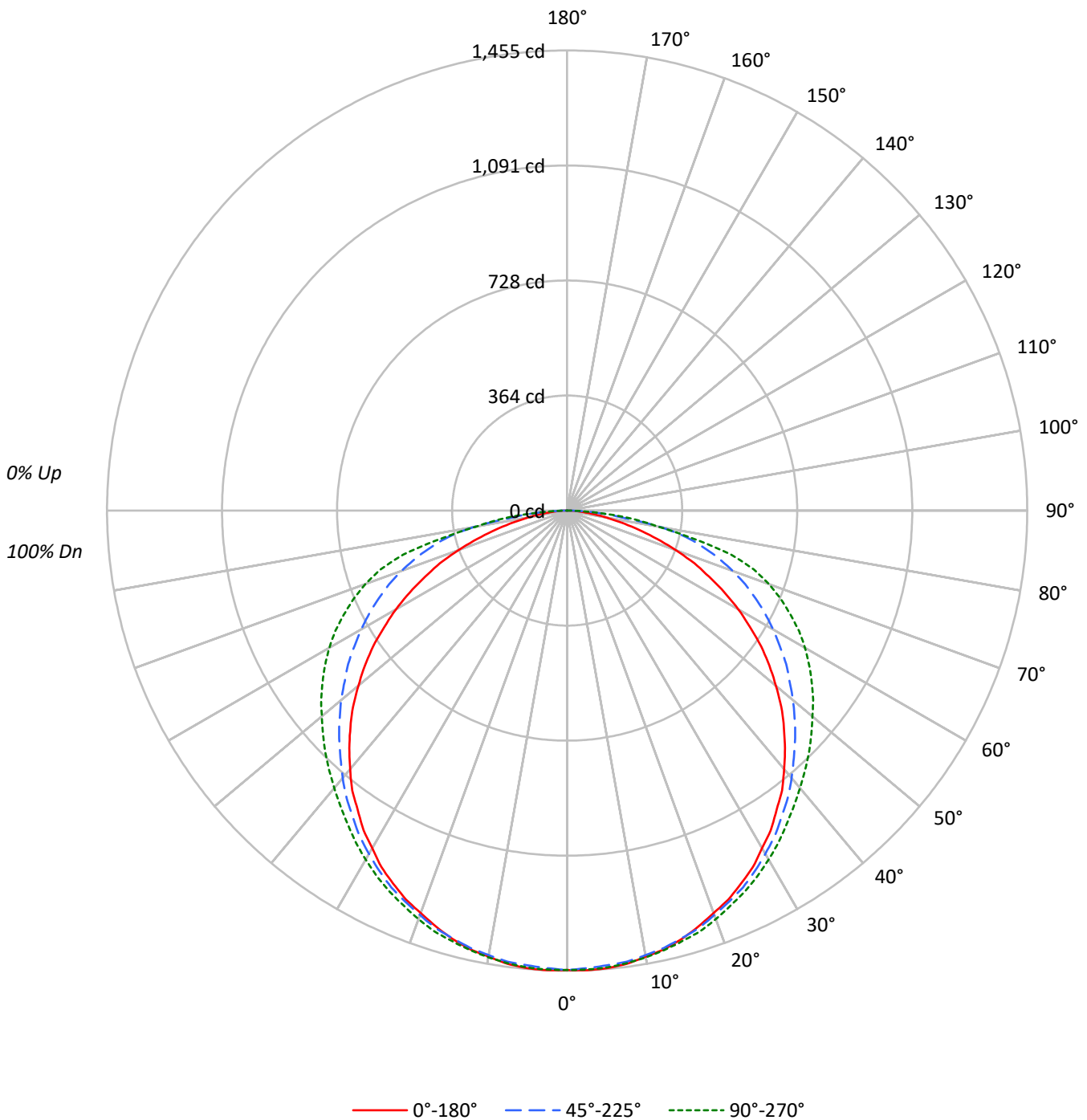
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	1954	1954	1954
5°	1962	1949	1959
10°	1956	1950	1960
15°	1953	1950	1963
20°	1939	1949	1968
25°	1932	1952	1973
30°	1915	1947	1979
35°	1897	1942	1987
40°	1875	1940	2012
45°	1844	1940	2058
50°	1803	1952	2120
55°	1757	1983	2214
60°	1683	2022	2337
65°	1576	2094	2480
70°	1433	2190	2668
75°	1215	2311	2787
80°	958	2325	2255
85°	707	1769	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.0
10°-20°	396.6	8.6
20°-30°	606.4	13.1
30°-40°	741.3	16.0
40°-50°	790.1	17.1
50°-60°	755.5	16.4
60°-70°	640.0	13.9
70°-80°	430.1	9.3
80°-90°	121.3	2.6
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°	1140.8	24.7
0°-40°	1882.1	40.7
0°-60°	3427.7	74.2
0°-90°	4619.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4619.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1453	1450	1443	1450	1450	138
15°	1402	1402	1400	1411	1409	395
25°	1301	1306	1315	1327	1329	600
35°	1155	1164	1182	1205	1210	723
45°	969	985	1020	1063	1081	748
55°	749	777	845	912	944	667
65°	495	545	658	745	779	491
75°	234	318	444	520	536	250
85°	46	94	115	124	128	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.6	1452.6	1452.6	1452.6	1452.6
2.5°	1454.9	1454.9	1448.0	1452.6	1452.6
5°	1452.6	1450.3	1443.4	1450.3	1450.3
7.5°	1445.7	1443.4	1438.8	1445.7	1443.4
10°	1432.0	1432.0	1427.4	1434.3	1434.3
12.5°	1420.5	1418.2	1415.9	1425.1	1422.8
15°	1402.2	1402.2	1399.9	1411.3	1409.1
17.5°	1379.3	1381.6	1383.9	1393.0	1395.3
20°	1354.1	1358.6	1360.9	1374.7	1374.7
22.5°	1331.2	1333.4	1338.0	1351.8	1351.8
25°	1301.4	1306.0	1315.1	1326.6	1328.9
27.5°	1271.6	1273.9	1285.3	1301.4	1303.7
30°	1232.6	1239.5	1253.3	1271.6	1273.9
32.5°	1198.3	1205.1	1221.2	1239.5	1244.1
35°	1154.7	1163.9	1182.2	1205.1	1209.7
37.5°	1115.8	1122.7	1145.6	1170.8	1177.6
40°	1067.7	1081.4	1104.3	1134.1	1145.6
42.5°	1019.6	1033.3	1060.8	1099.7	1113.5
45°	969.2	985.2	1019.6	1063.1	1081.4
47.5°	918.7	937.1	976.0	1026.4	1047.1
50°	861.5	884.4	932.5	989.8	1012.7
52.5°	806.5	834.0	886.7	950.8	980.6
55°	749.2	776.7	845.4	911.9	944.0
57.5°	685.1	721.7	797.3	872.9	907.3
60°	625.5	659.8	751.5	834.0	868.3
62.5°	561.3	607.2	705.7	792.7	827.1
65°	494.9	545.3	657.6	744.6	779.0
67.5°	435.3	490.3	609.4	696.5	730.9
70°	364.3	433.0	556.7	643.8	678.2
72.5°	297.8	373.5	501.8	586.5	618.6
75°	233.7	318.5	444.5	520.1	536.1
77.5°	174.1	263.5	384.9	417.0	405.5
80°	123.7	210.8	300.1	284.1	291.0
82.5°	80.2	160.4	185.6	210.8	217.7
85°	45.8	93.9	114.6	123.7	128.3
87.5°	20.6	34.4	45.8	45.8	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)