

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: P263852

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4328.0 lumens
Efficiency: N/A
Efficacy: 79.7 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

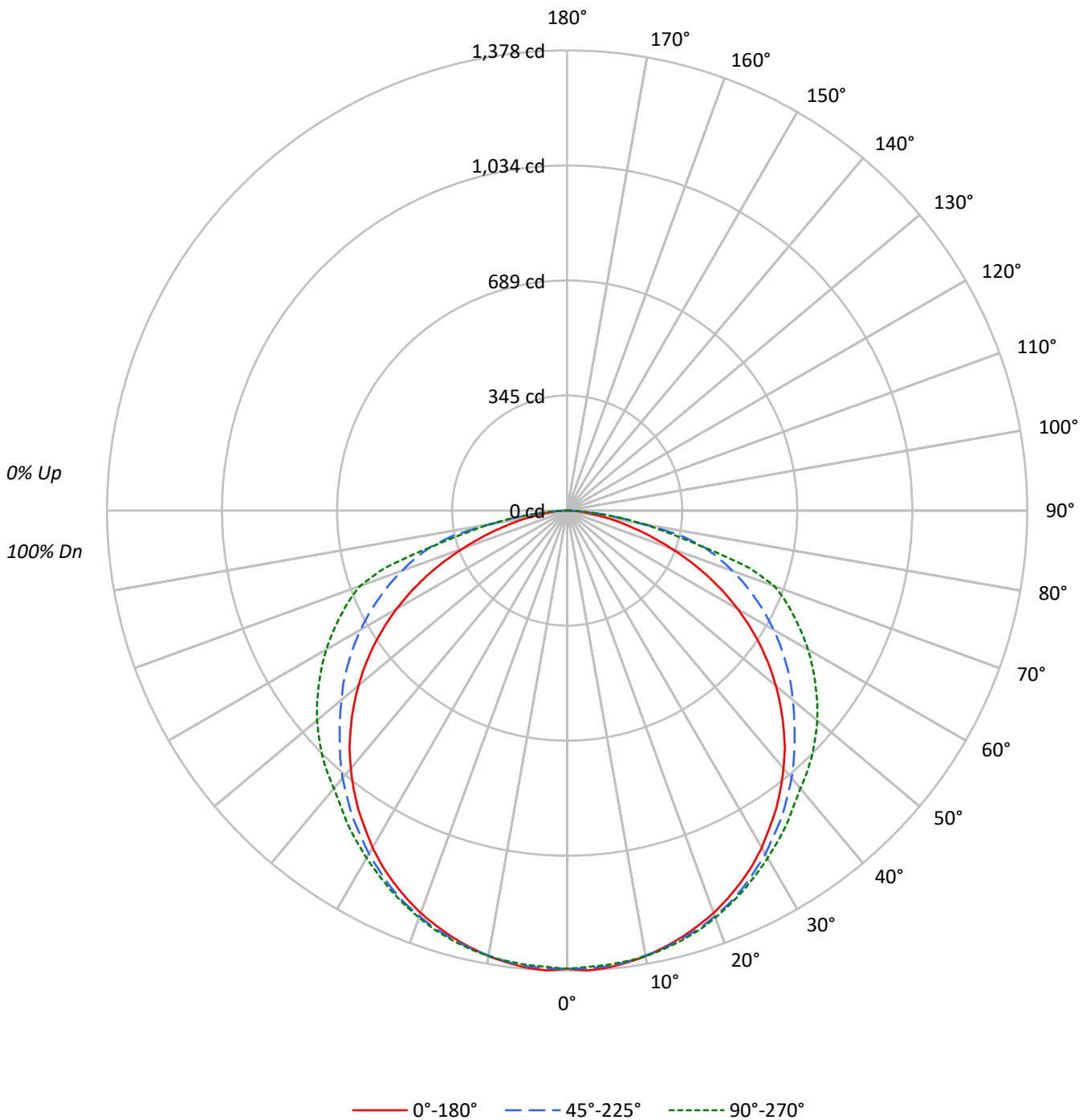
Input Watts (W): 54.312
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1846	1846	1846
5°	1856	1850	1844
10°	1851	1848	1851
15°	1843	1849	1855
20°	1836	1852	1858
25°	1825	1850	1860
30°	1811	1844	1867
35°	1792	1841	1883
40°	1770	1837	1908
45°	1743	1832	1974
50°	1708	1846	2047
55°	1659	1879	2129
60°	1588	1921	2242
65°	1479	1981	2387
70°	1308	2070	2598
75°	1096	2215	2182
80°	875	1750	1815
85°	690	1184	1085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.0
10°-20°	374.5	8.7
20°-30°	572.0	13.2
30°-40°	699.4	16.2
40°-50°	748.6	17.3
50°-60°	718.0	16.6
60°-70°	606.3	14.0
70°-80°	387.5	9.0
80°-90°	91.6	2.1
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°	1076.7	24.9
0°-40°	1776.0	41.0
0°-60°	3242.6	74.9
0°-90°	4328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1374	1366	1370	1368	1366	131
15°	1323	1319	1327	1332	1332	374
25°	1229	1227	1246	1251	1253	567
35°	1091	1099	1121	1136	1146	682
45°	916	931	963	1008	1038	707
55°	707	731	801	874	908	631
65°	464	509	622	709	750	458
75°	211	300	426	435	420	227
85°	45	75	77	75	70	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1378.4	1369.9	1372.0	1372.0	1367.8
5°	1374.1	1365.6	1369.9	1367.8	1365.6
7.5°	1365.6	1359.2	1363.5	1363.5	1361.4
10°	1355.0	1348.6	1352.8	1355.0	1355.0
12.5°	1340.1	1335.8	1342.2	1342.2	1344.3
15°	1323.0	1318.8	1327.3	1331.5	1331.5
17.5°	1303.8	1301.7	1312.4	1314.5	1316.6
20°	1282.5	1280.4	1293.2	1293.2	1297.4
22.5°	1257.0	1254.8	1271.9	1271.9	1276.1
25°	1229.3	1227.1	1246.3	1250.6	1252.7
27.5°	1199.4	1197.3	1216.5	1222.9	1227.1
30°	1165.4	1165.4	1186.7	1195.2	1201.6
32.5°	1127.0	1133.4	1152.6	1165.4	1173.9
35°	1090.8	1099.3	1120.6	1135.5	1146.2
37.5°	1050.3	1058.8	1082.3	1101.4	1114.2
40°	1007.7	1018.4	1046.1	1067.4	1086.5
42.5°	965.1	975.7	1005.6	1037.5	1063.1
45°	916.1	931.0	963.0	1007.7	1037.5
47.5°	867.1	882.0	922.5	977.9	1007.7
50°	816.0	833.0	882.0	945.9	977.9
52.5°	762.7	781.9	843.7	911.8	943.8
55°	707.3	730.7	801.1	873.5	907.6
57.5°	649.8	675.4	758.4	835.1	871.4
60°	590.1	622.1	713.7	794.7	833.0
62.5°	528.4	566.7	669.0	752.1	792.5
65°	464.4	509.2	622.1	709.4	749.9
67.5°	398.4	458.0	575.2	666.8	707.3
70°	332.4	402.7	526.2	620.0	660.4
72.5°	270.6	351.5	477.2	564.6	573.1
75°	210.9	300.4	426.1	434.6	419.7
77.5°	157.7	249.3	351.5	313.2	311.0
80°	112.9	200.3	225.8	232.2	234.3
82.5°	74.6	151.3	147.0	151.3	149.1
85°	44.7	74.6	76.7	74.6	70.3
87.5°	21.3	27.7	21.3	19.2	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)