

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: P263837

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263837
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-LD5-60-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

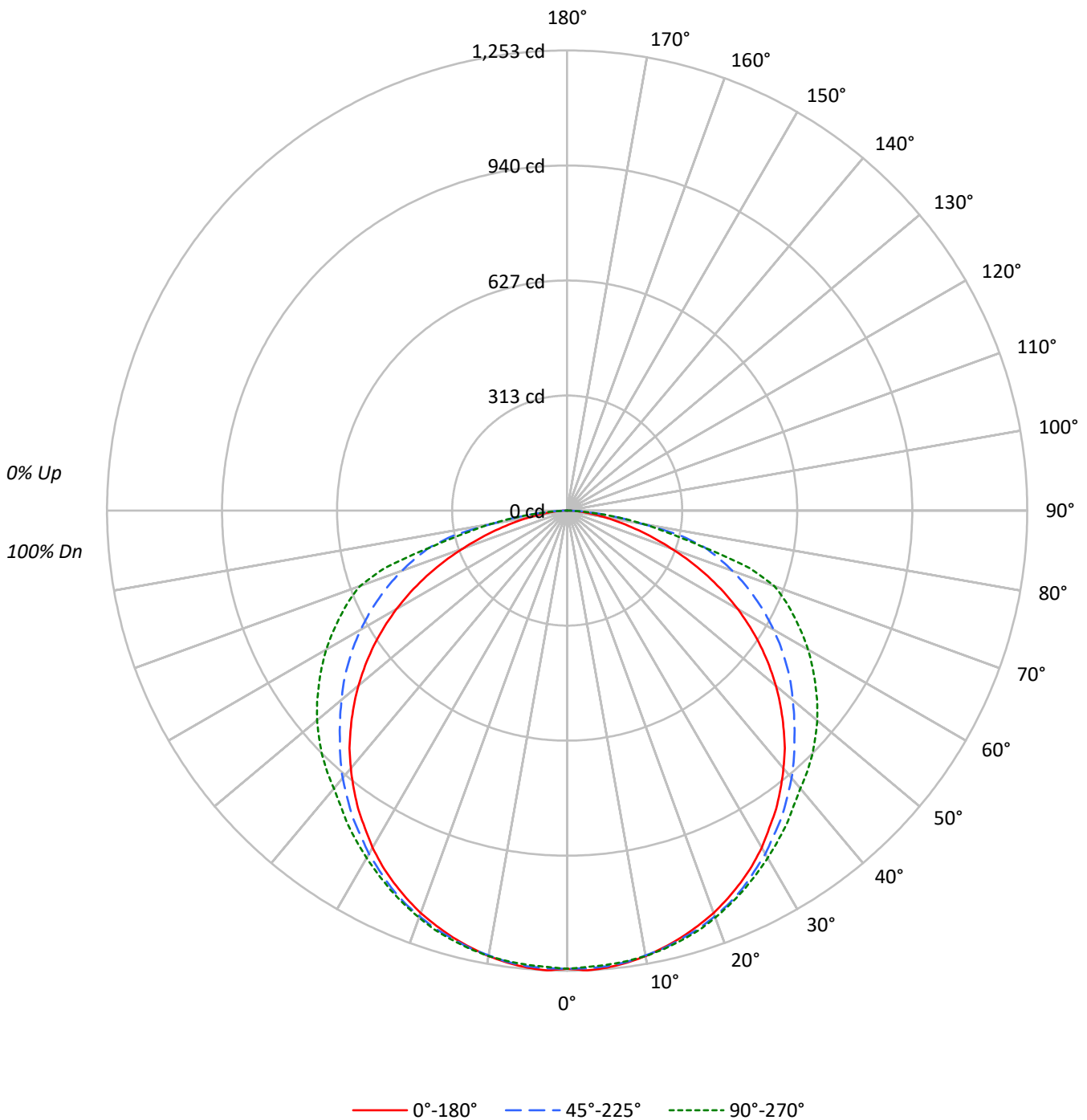
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1678	1678	1678
5°	1687	1682	1677
10°	1683	1680	1683
15°	1676	1681	1686
20°	1670	1684	1689
25°	1659	1682	1691
30°	1646	1676	1697
35°	1629	1674	1712
40°	1609	1671	1735
45°	1585	1666	1795
50°	1553	1679	1861
55°	1509	1708	1936
60°	1444	1746	2038
65°	1344	1801	2171
70°	1189	1882	2362
75°	997	2014	1984
80°	796	1591	1651
85°	628	1076	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.0
10°-20°	340.5	8.7
20°-30°	520.1	13.2
30°-40°	635.8	16.2
40°-50°	680.6	17.3
50°-60°	652.8	16.6
60°-70°	551.2	14.0
70°-80°	352.3	9.0
80°-90°	83.3	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°	978.9	24.9
0°-40°	1614.8	41.0
0°-60°	2948.2	74.9
0°-90°	3935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1242	1246	1244	1242	119
15°	1203	1199	1207	1211	1211	340
25°	1118	1116	1133	1137	1139	515
35°	992	1000	1019	1032	1042	620
45°	833	846	876	916	943	642
55°	643	664	728	794	825	574
65°	422	463	566	645	682	416
75°	192	273	387	395	382	206
85°	41	68	70	68	64	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1253.2	1245.5	1247.4	1247.4	1243.6
5°	1249.4	1241.6	1245.5	1243.6	1241.6
7.5°	1241.6	1235.8	1239.7	1239.7	1237.7
10°	1231.9	1226.1	1230.0	1231.9	1231.9
12.5°	1218.4	1214.5	1220.3	1220.3	1222.2
15°	1202.9	1199.0	1206.8	1210.6	1210.6
17.5°	1185.4	1183.5	1193.2	1195.1	1197.1
20°	1166.1	1164.1	1175.8	1175.8	1179.6
22.5°	1142.8	1140.9	1156.4	1156.4	1160.3
25°	1117.6	1115.7	1133.1	1137.0	1139.0
27.5°	1090.5	1088.6	1106.0	1111.8	1115.7
30°	1059.5	1059.5	1078.9	1086.7	1092.5
32.5°	1024.7	1030.5	1047.9	1059.5	1067.3
35°	991.7	999.5	1018.9	1032.4	1042.1
37.5°	954.9	962.7	984.0	1001.4	1013.1
40°	916.2	925.9	951.1	970.4	987.9
42.5°	877.5	887.1	914.3	943.3	966.6
45°	832.9	846.5	875.5	916.2	943.3
47.5°	788.4	801.9	838.7	889.1	916.2
50°	741.9	757.4	801.9	860.0	889.1
52.5°	693.4	710.9	767.1	829.0	858.1
55°	643.1	664.4	728.3	794.2	825.2
57.5°	590.8	614.0	689.6	759.3	792.2
60°	536.5	565.6	648.9	722.5	757.4
62.5°	480.4	515.2	608.2	683.8	720.6
65°	422.3	462.9	565.6	645.0	681.8
67.5°	362.2	416.5	523.0	606.3	643.1
70°	302.2	366.1	478.4	563.7	600.5
72.5°	246.0	319.6	433.9	513.3	521.1
75°	191.8	273.1	387.4	395.1	381.6
77.5°	143.3	226.6	319.6	284.7	282.8
80°	102.7	182.1	205.3	211.1	213.1
82.5°	67.8	137.5	133.7	137.5	135.6
85°	40.7	67.8	69.7	67.8	63.9
87.5°	19.4	25.2	19.4	17.4	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)