

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: P263836

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263836
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

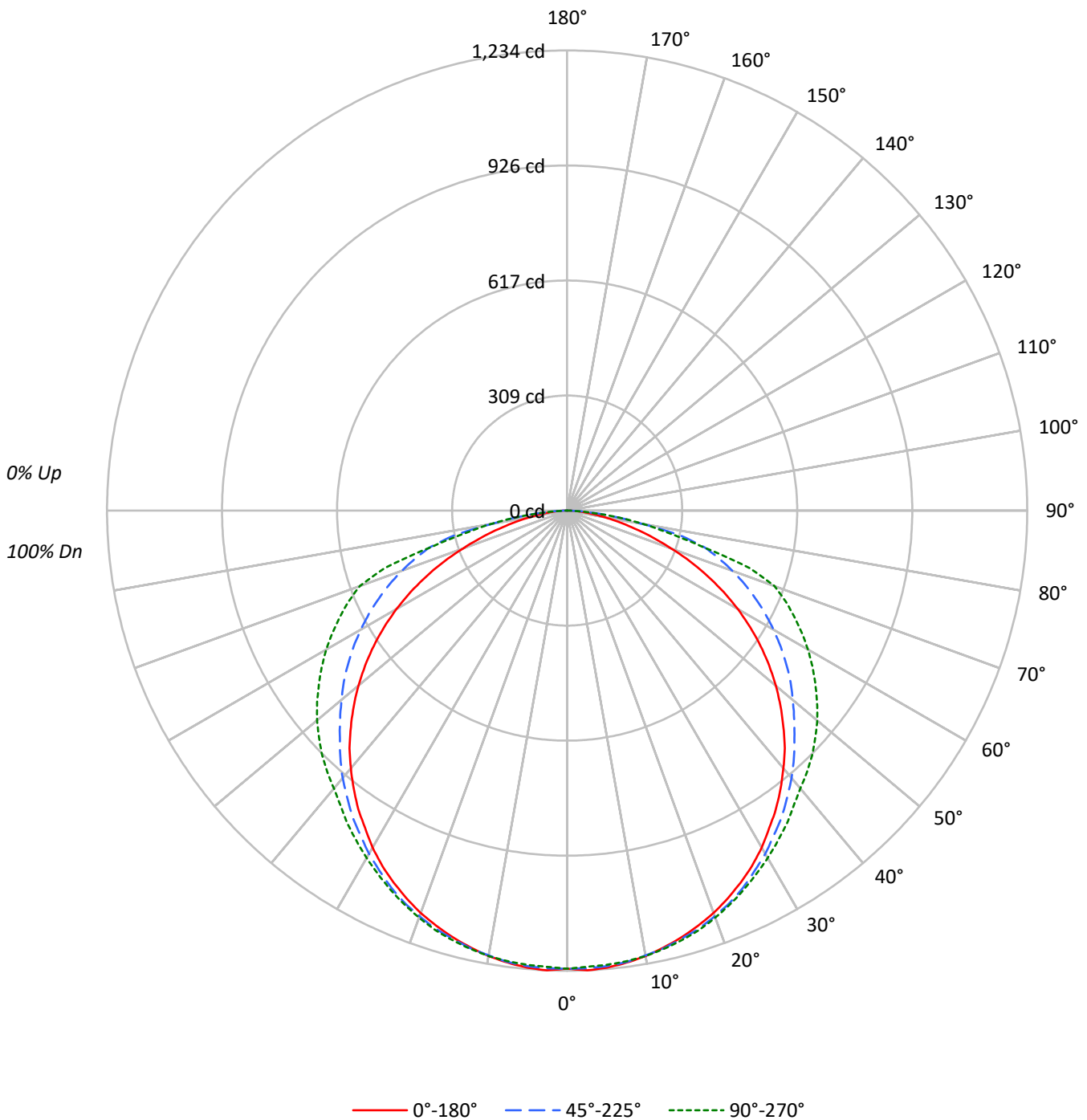
Input Watts (W): 45.291
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1653	1653	1653
5°	1662	1657	1651
10°	1657	1655	1657
15°	1650	1655	1661
20°	1644	1658	1663
25°	1634	1657	1665
30°	1621	1651	1671
35°	1604	1648	1686
40°	1585	1645	1709
45°	1561	1641	1768
50°	1529	1653	1833
55°	1486	1682	1906
60°	1422	1720	2007
65°	1324	1773	2138
70°	1171	1853	2326
75°	981	1983	1954
80°	783	1567	1626
85°	619	1061	971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.0
10°-20°	335.3	8.7
20°-30°	512.2	13.2
30°-40°	626.2	16.2
40°-50°	670.2	17.3
50°-60°	642.9	16.6
60°-70°	542.8	14.0
70°-80°	346.9	9.0
80°-90°	82.0	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°	964.0	24.9
0°-40°	1590.1	41.0
0°-60°	2903.3	74.9
0°-90°	3875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1230	1223	1226	1225	1223	117
15°	1184	1181	1188	1192	1192	334
25°	1101	1099	1116	1120	1122	507
35°	977	984	1003	1017	1026	611
45°	820	834	862	902	929	633
55°	633	654	717	782	813	565
65°	416	456	557	635	671	410
75°	189	269	382	389	376	203
85°	40	67	69	67	63	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1234.1	1226.5	1228.4	1228.4	1224.6
5°	1230.3	1222.7	1226.5	1224.6	1222.7
7.5°	1222.7	1217.0	1220.8	1220.8	1218.9
10°	1213.1	1207.4	1211.2	1213.1	1213.1
12.5°	1199.8	1196.0	1201.7	1201.7	1203.6
15°	1184.5	1180.7	1188.4	1192.2	1192.2
17.5°	1167.4	1165.5	1175.0	1176.9	1178.8
20°	1148.3	1146.4	1157.8	1157.8	1161.6
22.5°	1125.4	1123.5	1138.8	1138.8	1142.6
25°	1100.6	1098.7	1115.9	1119.7	1121.6
27.5°	1073.9	1072.0	1089.2	1094.9	1098.7
30°	1043.4	1043.4	1062.5	1070.1	1075.8
32.5°	1009.0	1014.8	1031.9	1043.4	1051.0
35°	976.6	984.3	1003.3	1016.7	1026.2
37.5°	940.4	948.0	969.0	986.2	997.6
40°	902.2	911.8	936.6	955.6	972.8
42.5°	864.1	873.6	900.3	928.9	951.8
45°	820.2	833.6	862.2	902.2	928.9
47.5°	776.3	789.7	825.9	875.5	902.2
50°	730.6	745.8	789.7	846.9	875.5
52.5°	682.9	700.0	755.4	816.4	845.0
55°	633.3	654.3	717.2	782.1	812.6
57.5°	581.8	604.7	679.1	747.7	780.2
60°	528.4	557.0	639.0	711.5	745.8
62.5°	473.1	507.4	598.9	673.3	709.6
65°	415.8	455.9	557.0	635.2	671.4
67.5°	356.7	410.1	515.0	597.0	633.3
70°	297.6	360.5	471.1	555.1	591.3
72.5°	242.2	314.7	427.3	505.5	513.1
75°	188.8	269.0	381.5	389.1	375.8
77.5°	141.2	223.2	314.7	280.4	278.5
80°	101.1	179.3	202.2	207.9	209.8
82.5°	66.8	135.4	131.6	135.4	133.5
85°	40.1	66.8	68.7	66.8	62.9
87.5°	19.1	24.8	19.1	17.2	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)