

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: P263607

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263607
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-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812.6 lumens
Efficiency: N/A
Efficacy: 69.5 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

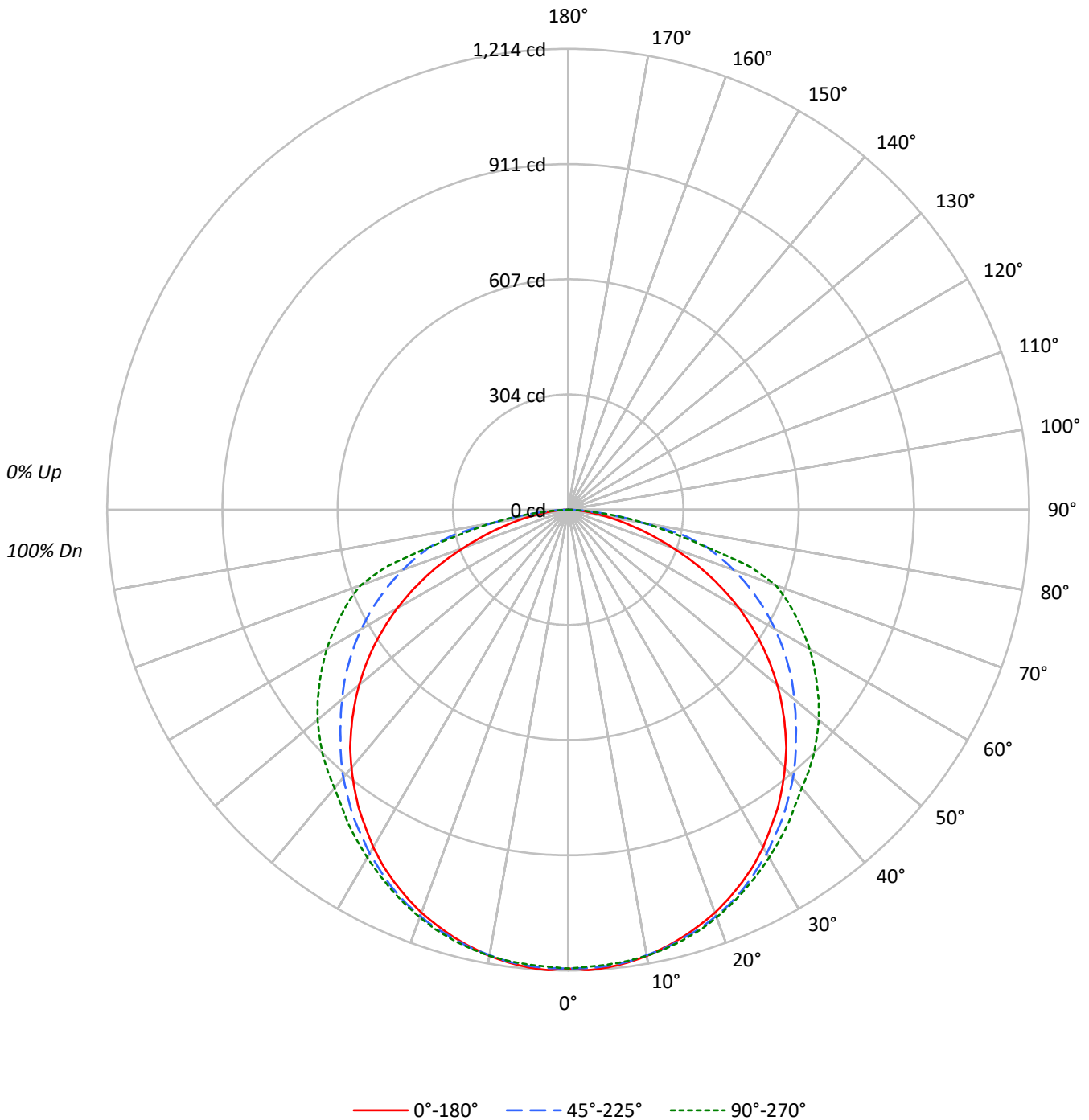
Input Watts (W): 54.895203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1626	1626	1626
5°	1635	1630	1625
10°	1631	1628	1631
15°	1623	1629	1634
20°	1618	1631	1636
25°	1608	1630	1638
30°	1595	1624	1645
35°	1578	1622	1658
40°	1559	1619	1681
45°	1536	1614	1739
50°	1505	1626	1803
55°	1462	1655	1875
60°	1399	1692	1975
65°	1302	1745	2103
70°	1152	1824	2289
75°	966	1951	1922
80°	771	1541	1599
85°	608	1044	956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	3.0
10°-20°	329.9	8.7
20°-30°	503.9	13.2
30°-40°	616.1	16.2
40°-50°	659.4	17.3
50°-60°	632.5	16.6
60°-70°	534.1	14.0
70°-80°	341.3	9.0
80°-90°	80.7	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°	948.5	24.9
0°-40°	1564.5	41.0
0°-60°	2856.5	74.9
0°-90°	3812.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1210	1203	1207	1205	1203	115
15°	1165	1162	1169	1173	1173	329
25°	1083	1081	1098	1102	1104	499
35°	961	968	987	1000	1010	601
45°	807	820	848	888	914	622
55°	623	644	706	770	800	556
65°	409	448	548	625	661	403
75°	186	265	375	383	370	200
85°	39	66	68	66	62	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.6	1208.6	1208.6	1208.6	1208.6
2.5°	1214.2	1206.7	1208.6	1208.6	1204.9
5°	1210.5	1203.0	1206.7	1204.9	1203.0
7.5°	1203.0	1197.3	1201.1	1201.1	1199.2
10°	1193.6	1188.0	1191.7	1193.6	1193.6
12.5°	1180.5	1176.7	1182.3	1182.3	1184.2
15°	1165.4	1161.7	1169.2	1173.0	1173.0
17.5°	1148.6	1146.7	1156.1	1157.9	1159.8
20°	1129.8	1127.9	1139.2	1139.2	1142.9
22.5°	1107.3	1105.4	1120.4	1120.4	1124.2
25°	1082.9	1081.0	1097.9	1101.6	1103.5
27.5°	1056.6	1054.7	1071.6	1077.2	1081.0
30°	1026.6	1026.6	1045.3	1052.8	1058.5
32.5°	992.8	998.4	1015.3	1026.6	1034.1
35°	960.9	968.4	987.2	1000.3	1009.7
37.5°	925.2	932.7	953.4	970.3	981.5
40°	887.7	897.1	921.5	940.2	957.1
42.5°	850.2	859.5	885.8	914.0	936.5
45°	807.0	820.1	848.3	887.7	914.0
47.5°	763.8	777.0	812.6	861.4	887.7
50°	718.8	733.8	777.0	833.3	861.4
52.5°	671.9	688.8	743.2	803.2	831.4
55°	623.1	643.7	705.6	769.5	799.5
57.5°	572.4	594.9	668.1	735.7	767.6
60°	519.9	548.0	628.7	700.0	733.8
62.5°	465.4	499.2	589.3	662.5	698.1
65°	409.1	448.5	548.0	624.9	660.6
67.5°	350.9	403.5	506.7	587.4	623.1
70°	292.8	354.7	463.6	546.1	581.8
72.5°	238.3	309.7	420.4	497.3	504.8
75°	185.8	264.6	375.3	382.9	369.7
77.5°	138.9	219.6	309.7	275.9	274.0
80°	99.5	176.4	198.9	204.6	206.4
82.5°	65.7	133.2	129.5	133.2	131.4
85°	39.4	65.7	67.6	65.7	61.9
87.5°	18.8	24.4	18.8	16.9	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)