

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: P261271

Luminaire Tested: **24CZ-LD5-35-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

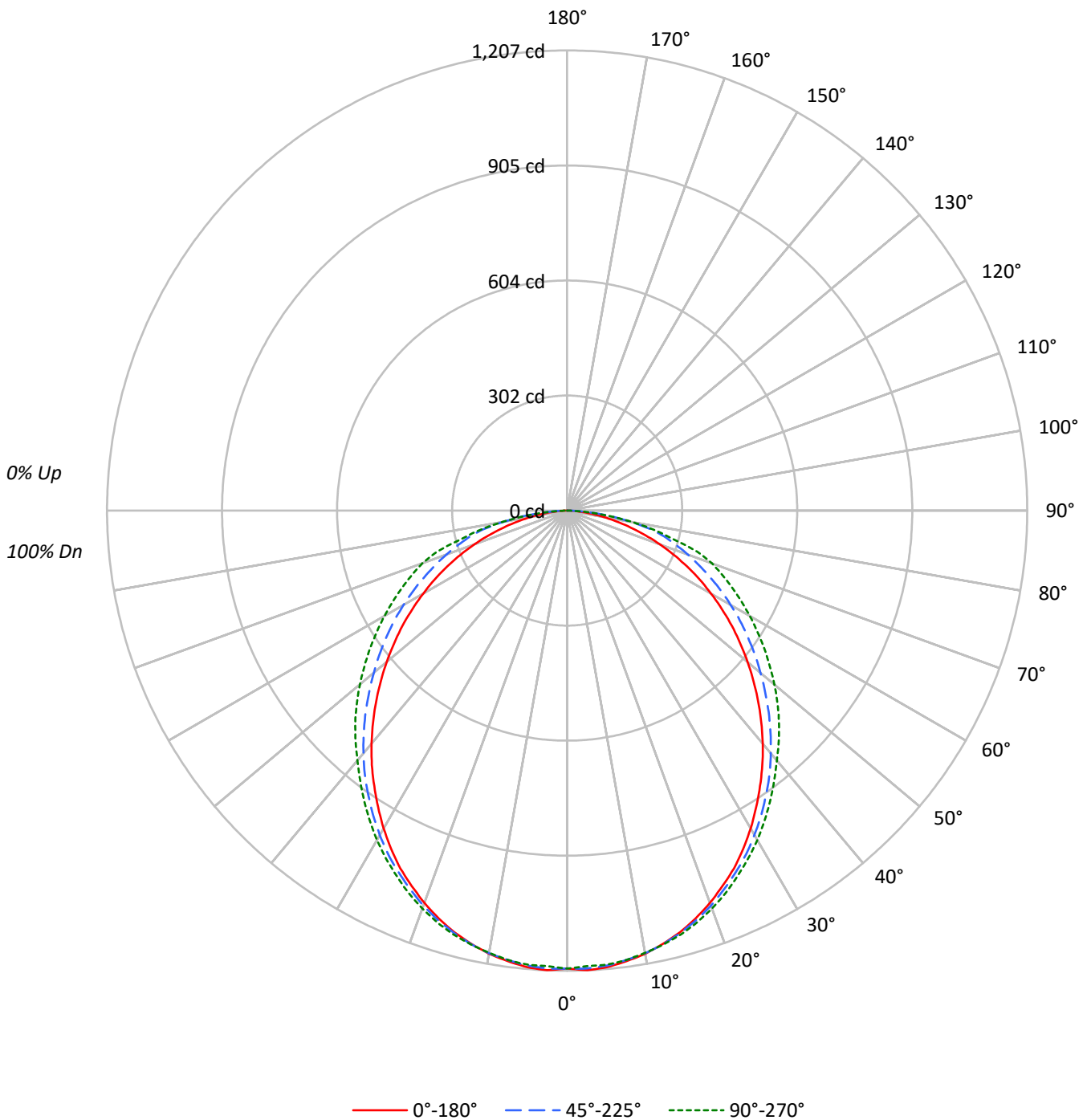
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1616	1616	1616
5°	1624	1618	1615
10°	1612	1611	1609
15°	1595	1598	1604
20°	1568	1579	1590
25°	1537	1554	1570
30°	1496	1527	1551
35°	1449	1494	1525
40°	1402	1460	1503
45°	1349	1422	1496
50°	1294	1387	1486
55°	1238	1357	1481
60°	1174	1334	1488
65°	1104	1318	1518
70°	1016	1325	1590
75°	901	1372	1481
80°	753	1300	1334
85°	562	1039	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.4
10°-20°	323.0	9.7
20°-30°	481.3	14.5
30°-40°	566.6	17.1
40°-50°	575.8	17.4
50°-60°	517.7	15.6
60°-70°	409.0	12.3
70°-80°	259.5	7.8
80°-90°	71.6	2.2
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°	917.9	27.7
0°-40°	1484.5	44.7
0°-60°	2578.0	77.7
0°-90°	3318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1202	1192	1198	1196	1196	114
15°	1145	1139	1147	1150	1152	322
25°	1036	1034	1047	1053	1058	476
35°	882	888	910	920	928	552
45°	709	719	747	770	786	547
55°	528	541	578	616	632	471
65°	347	364	414	459	477	343
75°	173	203	264	287	285	184
85°	36	63	67	62	62	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.2	1201.2	1201.2	1201.2	1201.2
2.5°	1206.7	1197.9	1202.3	1200.1	1195.7
5°	1202.3	1192.3	1197.9	1195.7	1195.7
7.5°	1192.3	1184.6	1189.0	1187.9	1189.0
10°	1180.2	1172.5	1179.1	1179.1	1178.0
12.5°	1163.6	1157.0	1164.7	1164.7	1165.8
15°	1144.9	1139.4	1147.1	1150.4	1151.5
17.5°	1121.7	1116.2	1126.1	1129.4	1132.7
20°	1095.2	1093.0	1102.9	1106.2	1110.6
22.5°	1065.4	1065.4	1075.3	1079.7	1086.4
25°	1035.6	1034.5	1046.6	1053.2	1057.7
27.5°	1000.2	1001.3	1016.8	1023.4	1028.9
30°	962.7	964.9	982.6	990.3	998.0
32.5°	923.0	927.4	947.3	956.1	963.8
35°	882.1	887.6	909.7	919.7	928.5
37.5°	841.3	849.0	872.2	882.1	892.1
40°	798.2	804.8	831.3	843.5	855.6
42.5°	754.0	762.9	789.4	807.0	821.4
45°	708.8	718.7	747.4	769.5	786.1
47.5°	663.5	676.8	704.4	734.2	748.5
50°	618.3	631.5	662.4	695.5	709.9
52.5°	571.9	585.1	620.5	654.7	670.1
55°	527.7	541.0	578.5	616.0	631.5
57.5°	481.4	495.7	537.7	576.3	591.8
60°	436.1	450.4	495.7	536.6	553.1
62.5°	391.9	407.4	454.9	497.9	514.5
65°	346.7	364.3	414.0	459.3	476.9
67.5°	302.5	322.4	374.3	421.7	440.5
70°	258.3	281.5	336.7	385.3	404.1
72.5°	215.3	240.7	299.2	347.8	357.7
75°	173.3	203.1	263.9	287.0	284.8
77.5°	133.6	166.7	224.1	228.5	235.2
80°	97.2	133.6	167.8	176.6	172.2
82.5°	64.0	100.5	120.3	115.9	114.8
85°	36.4	62.9	67.3	61.8	61.8
87.5°	15.5	25.4	22.1	16.6	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)