

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: P261364

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261364
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-LD5-35SE-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3444.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

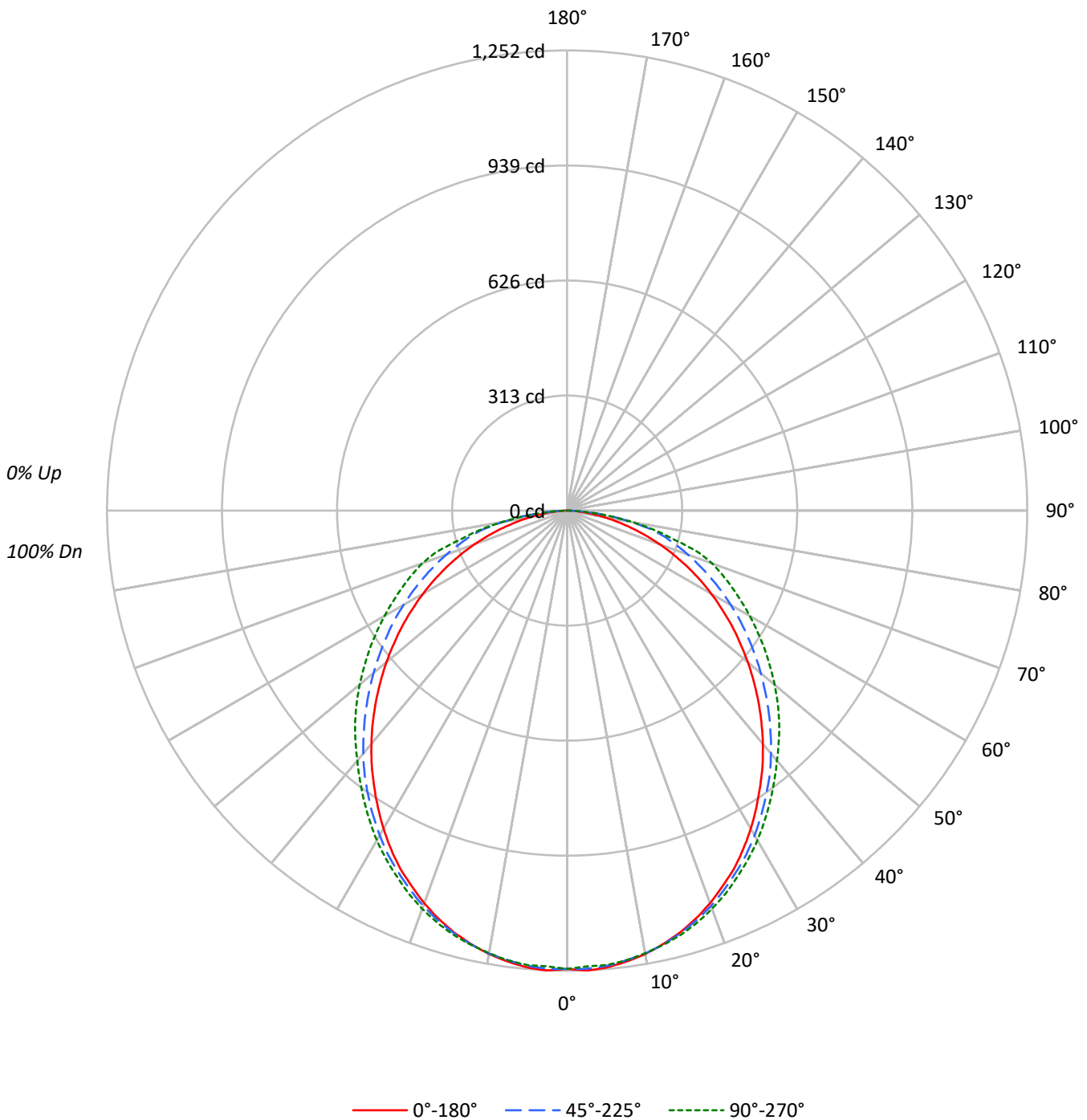
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1678	1678	1678
5°	1685	1679	1676
10°	1674	1672	1671
15°	1655	1658	1665
20°	1628	1639	1651
25°	1596	1613	1630
30°	1553	1585	1609
35°	1504	1551	1583
40°	1455	1516	1560
45°	1400	1476	1553
50°	1343	1439	1542
55°	1285	1409	1538
60°	1218	1385	1545
65°	1145	1368	1576
70°	1055	1375	1650
75°	935	1424	1537
80°	781	1350	1385
85°	584	1079	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	3.4
10°-20°	335.3	9.7
20°-30°	499.6	14.5
30°-40°	588.1	17.1
40°-50°	597.7	17.4
50°-60°	537.3	15.6
60°-70°	424.5	12.3
70°-80°	269.3	7.8
80°-90°	74.3	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°	952.7	27.7
0°-40°	1540.9	44.7
0°-60°	2675.9	77.7
0°-90°	3444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1248	1238	1243	1241	1241	118
15°	1188	1183	1191	1194	1195	335
25°	1075	1074	1086	1093	1098	494
35°	916	921	944	955	964	573
45°	736	746	776	799	816	568
55°	548	562	600	639	656	489
65°	360	378	430	477	495	356
75°	180	211	274	298	296	192
85°	38	65	70	64	64	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.8	1246.8	1246.8	1246.8	1246.8
2.5°	1252.5	1243.4	1247.9	1245.6	1241.1
5°	1247.9	1237.6	1243.4	1241.1	1241.1
7.5°	1237.6	1229.6	1234.2	1233.0	1234.2
10°	1225.0	1217.0	1223.9	1223.9	1222.7
12.5°	1207.8	1201.0	1209.0	1209.0	1210.1
15°	1188.3	1182.6	1190.6	1194.1	1195.2
17.5°	1164.3	1158.6	1168.9	1172.3	1175.7
20°	1136.8	1134.5	1144.8	1148.2	1152.8
22.5°	1105.8	1105.8	1116.2	1120.7	1127.6
25°	1074.9	1073.8	1086.4	1093.2	1097.8
27.5°	1038.2	1039.4	1055.4	1062.3	1068.0
30°	999.3	1001.6	1019.9	1027.9	1035.9
32.5°	958.0	962.6	983.2	992.4	1000.4
35°	915.6	921.3	944.3	954.6	963.7
37.5°	873.2	881.2	905.3	915.6	925.9
40°	828.5	835.4	862.9	875.5	888.1
42.5°	782.7	791.9	819.4	837.7	852.6
45°	735.7	746.0	775.8	798.7	815.9
47.5°	688.7	702.5	731.1	762.1	777.0
50°	641.7	655.5	687.6	721.9	736.8
52.5°	593.6	607.4	644.0	679.5	695.6
55°	547.8	561.5	600.5	639.4	655.5
57.5°	499.6	514.5	558.1	598.2	614.2
60°	452.6	467.5	514.5	556.9	574.1
62.5°	406.8	422.9	472.1	516.8	534.0
65°	359.8	378.2	429.7	476.7	495.0
67.5°	314.0	334.6	388.5	437.8	457.2
70°	268.2	292.2	349.5	399.9	419.4
72.5°	223.5	249.8	310.6	361.0	371.3
75°	179.9	210.9	273.9	297.9	295.7
77.5°	138.7	173.0	232.6	237.2	244.1
80°	100.8	138.7	174.2	183.4	178.8
82.5°	66.5	104.3	124.9	120.3	119.2
85°	37.8	65.3	69.9	64.2	64.2
87.5°	16.0	26.4	22.9	17.2	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)