

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: P261362

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261362
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3406.0 lumens
Efficiency: N/A
Efficacy: 127.2 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

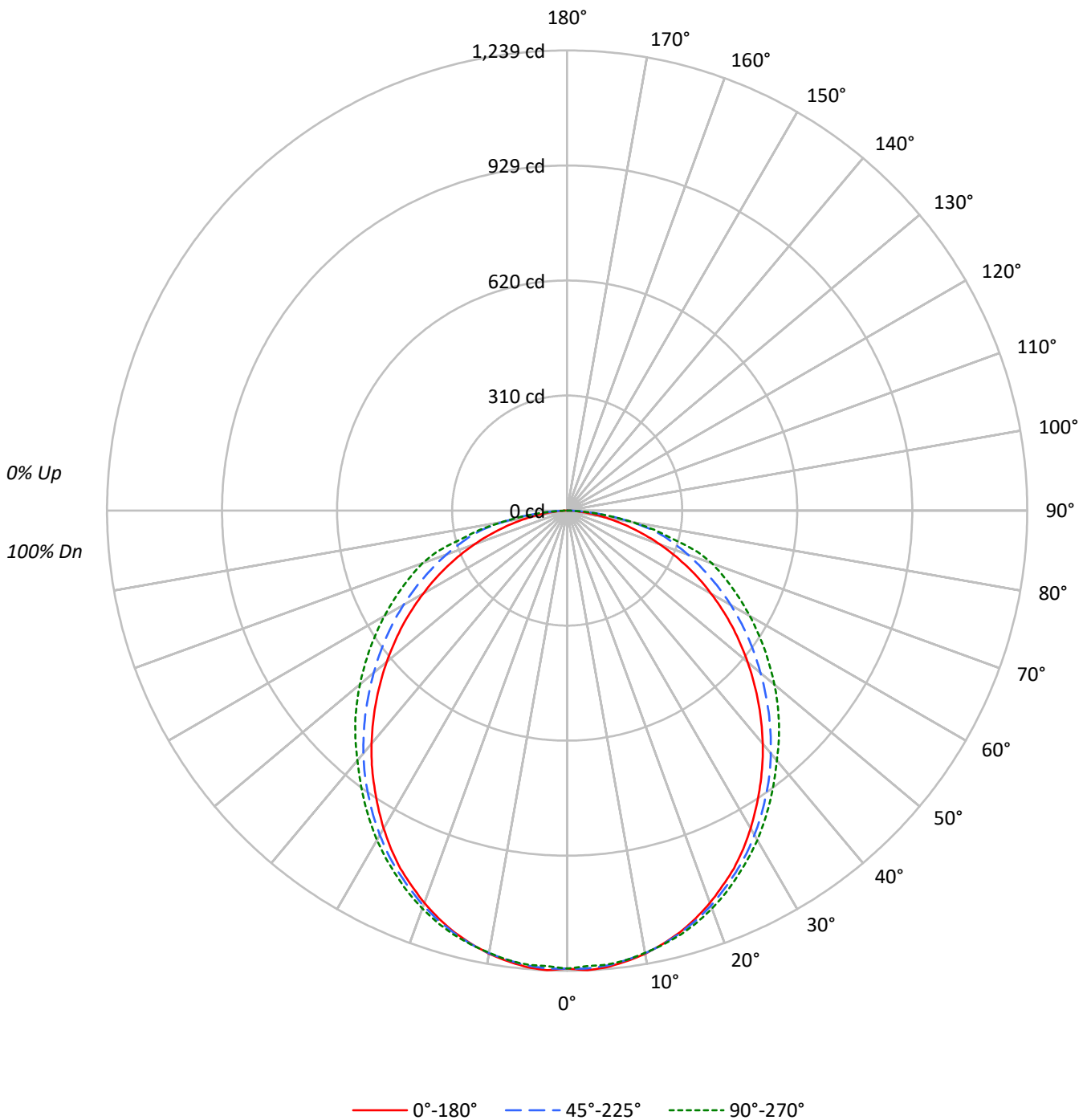
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1659	1659	1659
5°	1667	1661	1658
10°	1655	1654	1652
15°	1637	1640	1646
20°	1610	1621	1632
25°	1578	1595	1612
30°	1535	1567	1592
35°	1487	1534	1566
40°	1439	1499	1543
45°	1384	1460	1535
50°	1329	1423	1525
55°	1271	1393	1521
60°	1205	1369	1528
65°	1133	1353	1559
70°	1043	1360	1632
75°	925	1408	1520
80°	773	1335	1370
85°	577	1067	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.4
10°-20°	331.6	9.7
20°-30°	494.1	14.5
30°-40°	581.6	17.1
40°-50°	591.1	17.4
50°-60°	531.4	15.6
60°-70°	419.8	12.3
70°-80°	266.3	7.8
80°-90°	73.5	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°	942.2	27.7
0°-40°	1523.9	44.7
0°-60°	2646.3	77.7
0°-90°	3406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1234	1224	1230	1227	1227	117
15°	1175	1170	1178	1181	1182	331
25°	1063	1062	1074	1081	1086	489
35°	906	911	934	944	953	567
45°	728	738	767	790	807	561
55°	542	555	594	632	648	484
65°	356	374	425	472	490	353
75°	178	208	271	295	292	189
85°	37	65	69	64	64	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.0	1233.0	1233.0	1233.0	1233.0
2.5°	1238.7	1229.6	1234.2	1231.9	1227.4
5°	1234.2	1224.0	1229.6	1227.4	1227.4
7.5°	1224.0	1216.0	1220.6	1219.4	1220.6
10°	1211.5	1203.6	1210.4	1210.4	1209.2
12.5°	1194.5	1187.7	1195.6	1195.6	1196.8
15°	1175.2	1169.6	1177.5	1180.9	1182.0
17.5°	1151.4	1145.8	1156.0	1159.4	1162.8
20°	1124.2	1122.0	1132.2	1135.6	1140.1
22.5°	1093.6	1093.6	1103.8	1108.4	1115.2
25°	1063.0	1061.9	1074.4	1081.2	1085.7
27.5°	1026.8	1027.9	1043.8	1050.6	1056.2
30°	988.2	990.5	1008.6	1016.6	1024.5
32.5°	947.4	952.0	972.4	981.4	989.4
35°	905.5	911.2	933.8	944.0	953.1
37.5°	863.6	871.5	895.3	905.5	915.7
40°	819.4	826.2	853.4	865.8	878.3
42.5°	774.0	783.1	810.3	828.4	843.2
45°	727.6	737.8	767.2	789.9	806.9
47.5°	681.1	694.7	723.0	753.6	768.4
50°	634.7	648.2	680.0	714.0	728.7
52.5°	587.1	600.7	636.9	672.0	687.9
55°	541.7	555.3	593.9	632.4	648.2
57.5°	494.1	508.9	551.9	591.6	607.5
60°	447.7	462.4	508.9	550.8	567.8
62.5°	402.3	418.2	466.9	511.1	528.1
65°	355.9	374.0	425.0	471.5	489.6
67.5°	310.5	330.9	384.2	432.9	452.2
70°	265.2	289.0	345.7	395.5	414.8
72.5°	221.0	247.1	307.1	357.0	367.2
75°	177.9	208.5	270.9	294.7	292.4
77.5°	137.1	171.1	230.1	234.6	241.4
80°	99.7	137.1	172.3	181.3	176.8
82.5°	65.7	103.1	123.5	119.0	117.9
85°	37.4	64.6	69.1	63.5	63.5
87.5°	15.9	26.1	22.7	17.0	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)