

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: P260558

Luminaire Tested: **24CZ-LD5-35-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3519.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

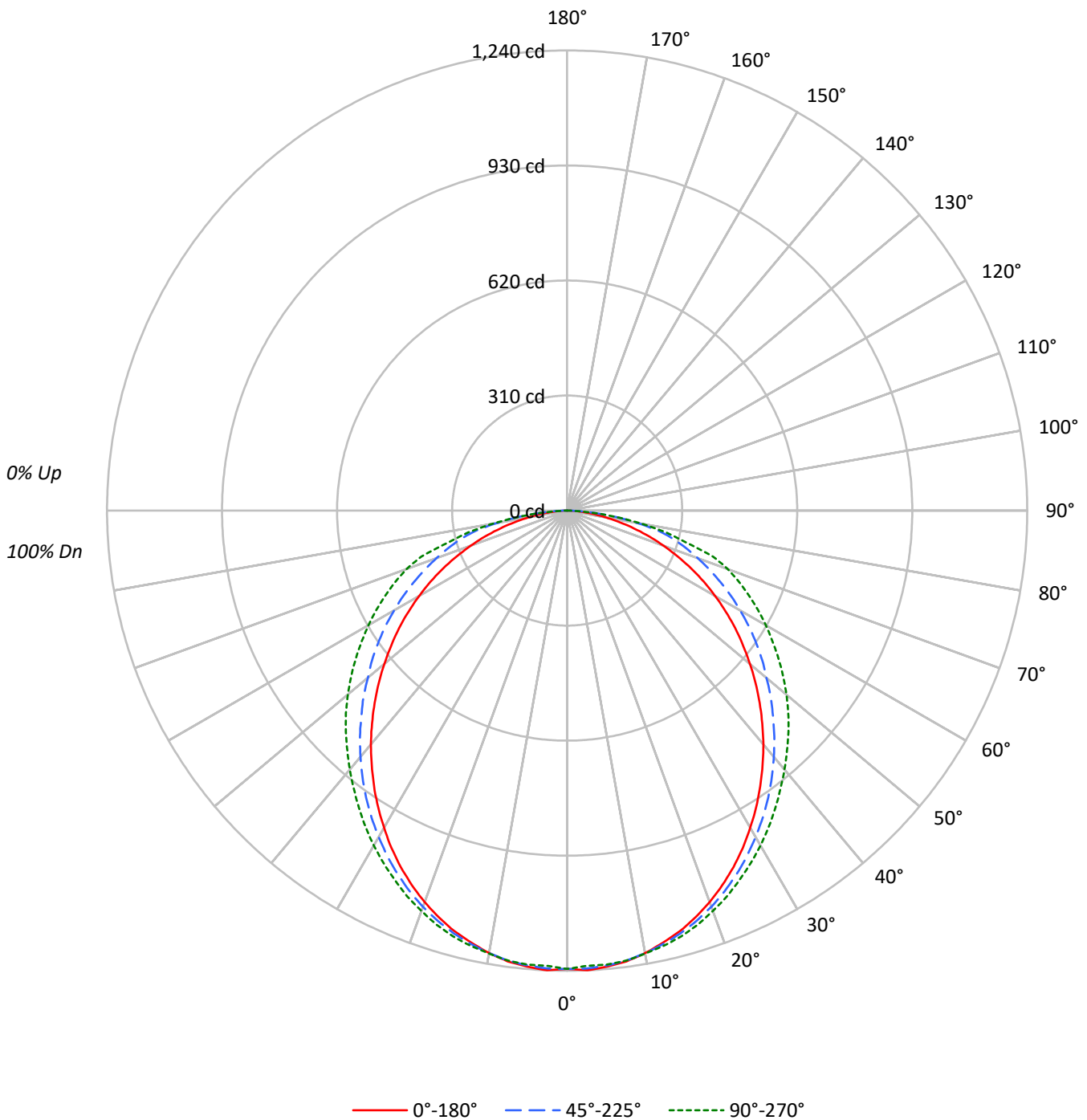
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1662	1662	1662
5°	1666	1662	1658
10°	1654	1654	1656
15°	1635	1643	1655
20°	1608	1627	1644
25°	1574	1605	1631
30°	1533	1578	1619
35°	1490	1552	1607
40°	1445	1522	1600
45°	1396	1493	1605
50°	1347	1468	1614
55°	1297	1458	1631
60°	1239	1449	1663
65°	1174	1450	1719
70°	1085	1474	1811
75°	971	1541	1722
80°	812	1475	1578
85°	614	1135	1079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	3.3
10°-20°	332.1	9.4
20°-30°	496.5	14.1
30°-40°	589.1	16.7
40°-50°	606.3	17.2
50°-60°	556.2	15.8
60°-70°	449.7	12.8
70°-80°	291.9	8.3
80°-90°	80.5	2.3
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°	945.4	26.9
0°-40°	1534.5	43.6
0°-60°	2697.0	76.6
0°-90°	3519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1234	1225	1230	1229	1228	117
15°	1174	1169	1180	1184	1188	331
25°	1060	1062	1081	1090	1099	488
35°	907	914	945	965	978	567
45°	734	746	784	822	843	566
55°	553	570	622	672	695	494
65°	369	390	455	516	540	364
75°	187	222	296	331	331	198
85°	40	68	74	71	70	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.0	1235.0	1235.0	1235.0	1235.0
2.5°	1239.8	1230.2	1235.0	1233.8	1227.8
5°	1233.8	1225.3	1230.2	1229.0	1227.8
7.5°	1225.3	1216.9	1222.9	1221.7	1222.9
10°	1210.9	1203.7	1210.9	1212.1	1212.1
12.5°	1192.8	1186.8	1196.4	1198.8	1201.2
15°	1173.5	1168.7	1179.6	1184.4	1188.0
17.5°	1149.4	1145.8	1159.1	1165.1	1169.9
20°	1122.9	1121.7	1136.2	1142.2	1148.2
22.5°	1092.8	1092.8	1109.7	1116.9	1125.3
25°	1060.3	1061.5	1080.8	1090.4	1098.8
27.5°	1025.3	1026.5	1049.4	1061.5	1071.1
30°	986.8	991.6	1015.7	1031.4	1042.2
32.5°	948.2	954.3	980.8	998.8	1010.9
35°	907.3	914.5	944.6	965.1	978.3
37.5°	865.1	873.5	906.1	929.0	944.6
40°	822.9	832.6	866.3	892.8	910.9
42.5°	778.3	789.2	826.5	857.9	877.1
45°	733.8	745.8	784.4	821.7	843.4
47.5°	689.2	703.6	744.6	785.6	808.5
50°	643.4	657.9	701.2	748.2	771.1
52.5°	597.6	614.5	662.7	710.9	733.8
55°	553.0	569.9	621.7	672.3	695.2
57.5°	507.2	524.1	580.7	633.8	656.7
60°	460.3	479.5	538.6	592.8	618.1
62.5°	414.5	435.0	497.6	555.4	579.5
65°	368.7	390.4	455.4	515.7	539.8
67.5°	321.7	347.0	414.5	475.9	501.2
70°	275.9	303.6	374.7	436.2	460.3
72.5°	231.3	261.5	335.0	397.6	412.1
75°	186.8	221.7	296.4	331.3	331.3
77.5°	144.6	183.1	253.0	266.3	273.5
80°	104.8	147.0	190.4	206.0	203.6
82.5°	69.9	112.1	136.1	136.1	132.5
85°	39.8	67.5	73.5	71.1	69.9
87.5°	16.9	25.3	22.9	18.1	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)