

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: P260718

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260718
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-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.0 lumens
Efficiency: N/A
Efficacy: 147.8 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

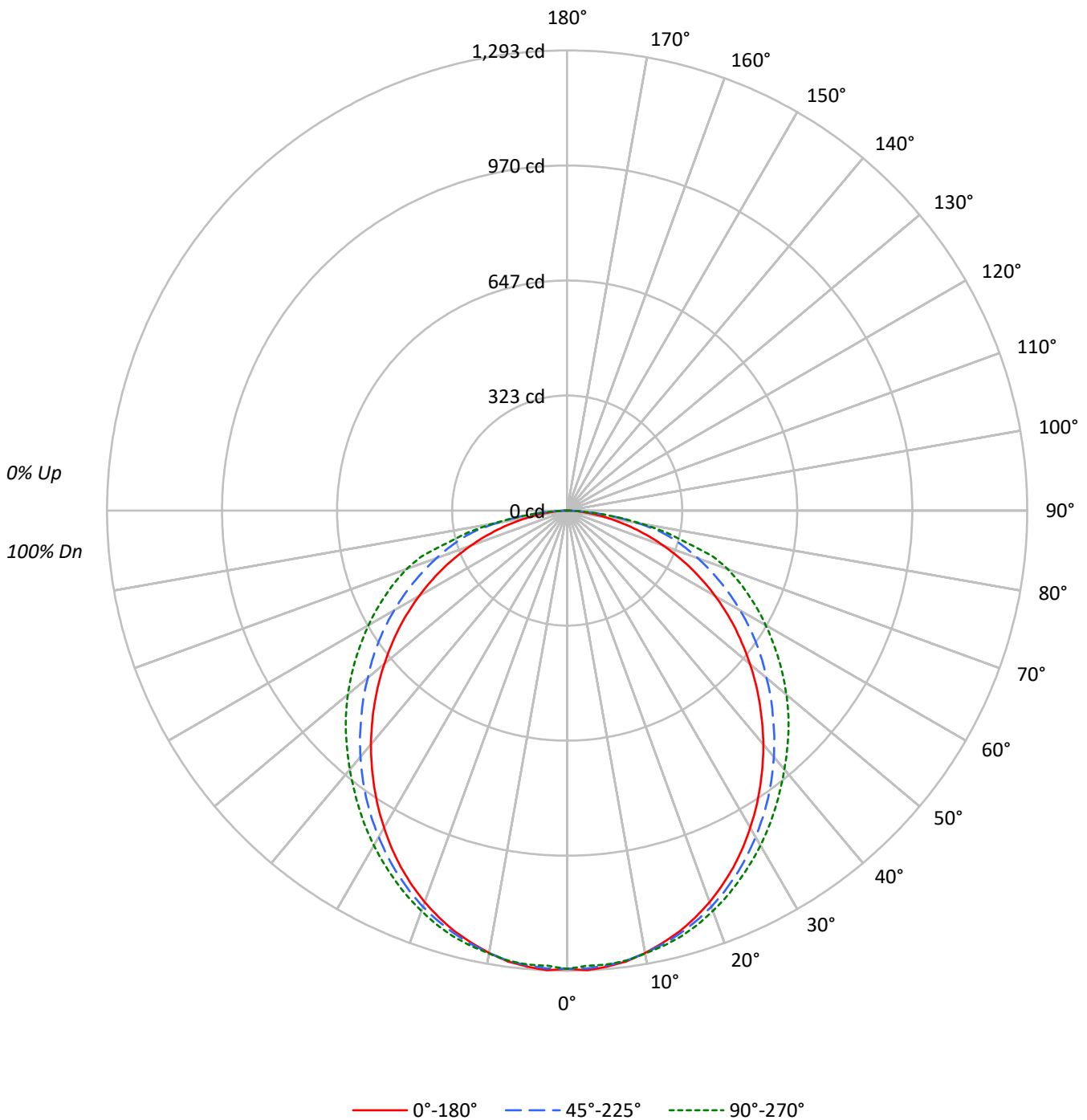
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1732	1732	1732
5°	1737	1732	1729
10°	1725	1725	1727
15°	1704	1713	1725
20°	1676	1696	1714
25°	1641	1673	1701
30°	1598	1645	1688
35°	1554	1618	1676
40°	1507	1586	1668
45°	1456	1556	1673
50°	1404	1530	1683
55°	1353	1521	1700
60°	1291	1511	1734
65°	1224	1512	1792
70°	1132	1537	1888
75°	1012	1606	1796
80°	847	1538	1645
85°	641	1183	1125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.3
10°-20°	346.3	9.4
20°-30°	517.7	14.1
30°-40°	614.2	16.7
40°-50°	632.1	17.2
50°-60°	579.9	15.8
60°-70°	468.9	12.8
70°-80°	304.3	8.3
80°-90°	83.9	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°	985.7	26.9
0°-40°	1599.9	43.6
0°-60°	2811.9	76.6
0°-90°	3669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1286	1278	1283	1281	1280	122
15°	1224	1218	1230	1235	1239	345
25°	1106	1107	1127	1137	1146	509
35°	946	954	985	1006	1020	592
45°	765	778	818	857	879	590
55°	577	594	648	701	725	515
65°	384	407	475	538	563	380
75°	195	231	309	346	346	207
85°	42	70	77	74	73	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.6	1287.6	1287.6	1287.6	1287.6
2.5°	1292.7	1282.6	1287.6	1286.4	1280.1
5°	1286.4	1277.6	1282.6	1281.3	1280.1
7.5°	1277.6	1268.8	1275.1	1273.8	1275.1
10°	1262.5	1255.0	1262.5	1263.8	1263.8
12.5°	1243.7	1237.4	1247.4	1249.9	1252.5
15°	1223.6	1218.5	1229.8	1234.9	1238.6
17.5°	1198.4	1194.7	1208.5	1214.8	1219.8
20°	1170.8	1169.5	1184.6	1190.9	1197.2
22.5°	1139.4	1139.4	1157.0	1164.5	1173.3
25°	1105.5	1106.7	1126.8	1136.9	1145.7
27.5°	1069.0	1070.3	1094.2	1106.7	1116.8
30°	1028.8	1033.9	1059.0	1075.3	1086.6
32.5°	988.6	994.9	1022.6	1041.4	1054.0
35°	945.9	953.5	984.9	1006.2	1020.1
37.5°	902.0	910.8	944.7	968.5	984.9
40°	858.0	868.0	903.2	930.9	949.7
42.5°	811.5	822.8	861.8	894.4	914.5
45°	765.0	777.6	817.8	856.7	879.4
47.5°	718.6	733.6	776.3	819.1	842.9
50°	670.8	685.9	731.1	780.1	804.0
52.5°	623.1	640.7	690.9	741.2	765.0
55°	576.6	594.2	648.2	701.0	724.8
57.5°	528.9	546.5	605.5	660.8	684.6
60°	479.9	500.0	561.5	618.1	644.4
62.5°	432.1	453.5	518.8	579.1	604.2
65°	384.4	407.0	474.9	537.7	562.8
67.5°	335.4	361.8	432.1	496.2	522.6
70°	287.7	316.6	390.7	454.8	479.9
72.5°	241.2	272.6	349.2	414.6	429.6
75°	194.7	231.1	309.0	345.5	345.5
77.5°	150.7	190.9	263.8	277.6	285.2
80°	109.3	153.3	198.5	214.8	212.3
82.5°	72.9	116.8	142.0	142.0	138.2
85°	41.5	70.3	76.6	74.1	72.9
87.5°	17.6	26.4	23.9	18.8	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)