

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: P260944

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260944
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-LD5-35SE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3376.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

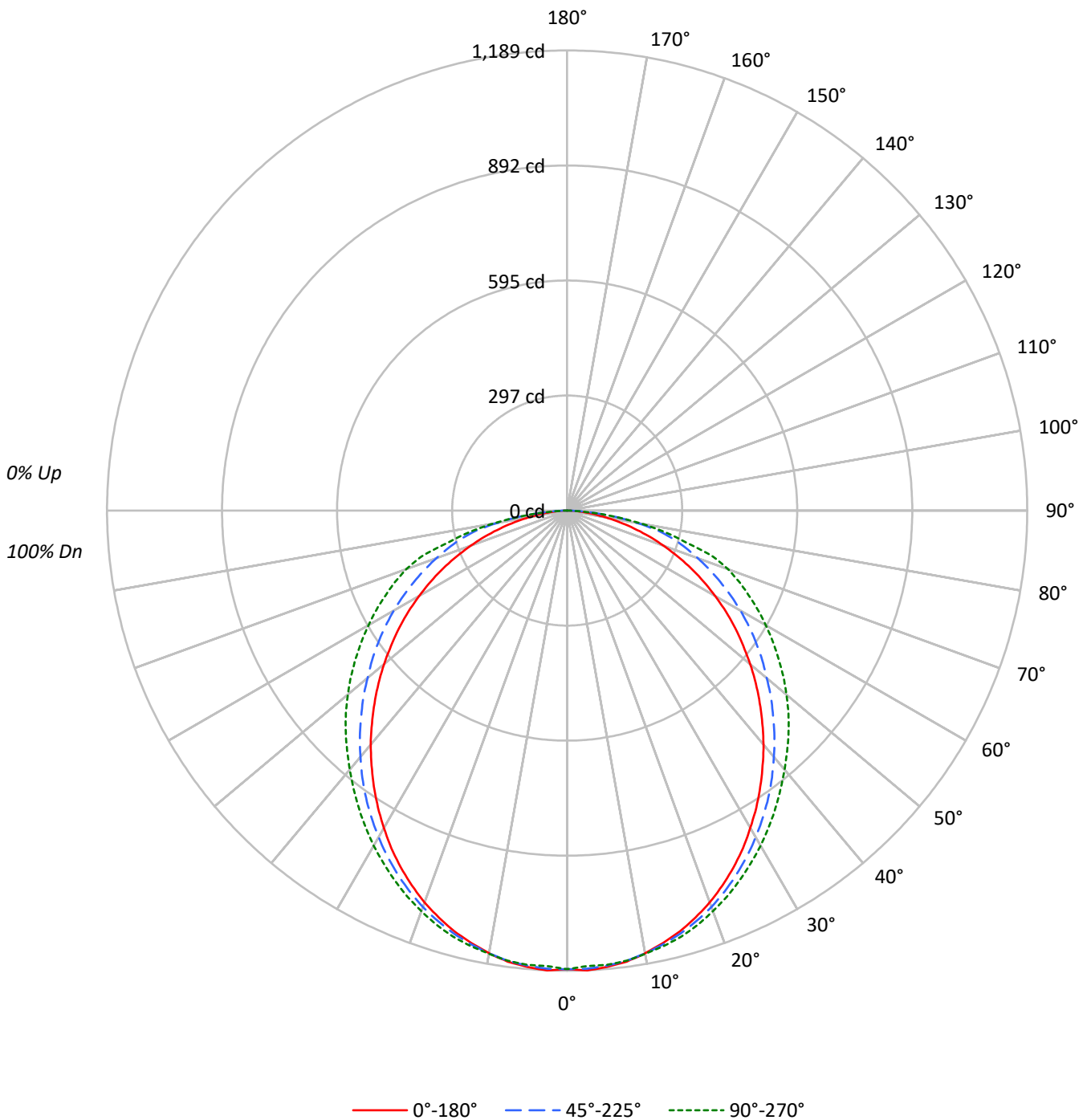
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1594	1594	1594
5°	1599	1594	1591
10°	1587	1587	1589
15°	1568	1576	1588
20°	1543	1561	1577
25°	1510	1539	1565
30°	1471	1514	1553
35°	1430	1488	1542
40°	1387	1460	1535
45°	1339	1432	1540
50°	1292	1408	1549
55°	1245	1399	1565
60°	1188	1390	1596
65°	1126	1391	1649
70°	1041	1414	1737
75°	932	1478	1653
80°	779	1415	1513
85°	588	1088	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.3
10°-20°	318.7	9.4
20°-30°	476.4	14.1
30°-40°	565.1	16.7
40°-50°	581.6	17.2
50°-60°	533.6	15.8
60°-70°	431.4	12.8
70°-80°	280.0	8.3
80°-90°	77.2	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°	907.0	26.9
0°-40°	1472.1	43.6
0°-60°	2587.3	76.6
0°-90°	3376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1184	1176	1180	1179	1178	112
15°	1126	1121	1132	1136	1140	317
25°	1017	1018	1037	1046	1054	468
35°	870	877	906	926	939	544
45°	704	716	752	788	809	543
55°	531	547	596	645	667	474
65°	354	374	437	495	518	350
75°	179	213	284	318	318	190
85°	38	65	70	68	67	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1189.4	1180.2	1184.8	1183.6	1177.9
5°	1183.6	1175.6	1180.2	1179.0	1177.9
7.5°	1175.6	1167.5	1173.2	1172.1	1173.2
10°	1161.7	1154.7	1161.7	1162.8	1162.8
12.5°	1144.3	1138.6	1147.8	1150.1	1152.4
15°	1125.8	1121.2	1131.6	1136.3	1139.7
17.5°	1102.7	1099.3	1112.0	1117.8	1122.4
20°	1077.3	1076.1	1090.0	1095.8	1101.6
22.5°	1048.4	1048.4	1064.6	1071.5	1079.6
25°	1017.2	1018.4	1036.8	1046.1	1054.2
27.5°	983.7	984.8	1006.8	1018.4	1027.6
30°	946.7	951.3	974.4	989.5	999.9
32.5°	909.7	915.5	940.9	958.2	969.8
35°	870.4	877.3	906.2	925.9	938.6
37.5°	829.9	838.0	869.2	891.2	906.2
40°	789.5	798.7	831.1	856.5	873.9
42.5°	746.7	757.1	792.9	823.0	841.5
45°	703.9	715.5	752.5	788.3	809.1
47.5°	661.2	675.0	714.3	753.6	775.6
50°	617.3	631.1	672.7	717.8	739.8
52.5°	573.3	589.5	635.7	682.0	703.9
55°	530.6	546.7	596.4	645.0	667.0
57.5°	486.6	502.8	557.1	608.0	630.0
60°	441.6	460.0	516.7	568.7	593.0
62.5°	397.6	417.3	477.4	532.9	556.0
65°	353.7	374.5	436.9	494.7	517.8
67.5°	308.6	332.9	397.6	456.6	480.9
70°	264.7	291.3	359.5	418.4	441.6
72.5°	221.9	250.8	321.3	381.4	395.3
75°	179.2	212.7	284.4	317.9	317.9
77.5°	138.7	175.7	242.7	255.5	262.4
80°	100.6	141.0	182.6	197.7	195.3
82.5°	67.0	107.5	130.6	130.6	127.1
85°	38.1	64.7	70.5	68.2	67.0
87.5°	16.2	24.3	22.0	17.3	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)