

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: P260801

Luminaire Tested: **24CZ-LD5-35SE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260801
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264.0 lumens
Efficiency: N/A
Efficacy: 125.3 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

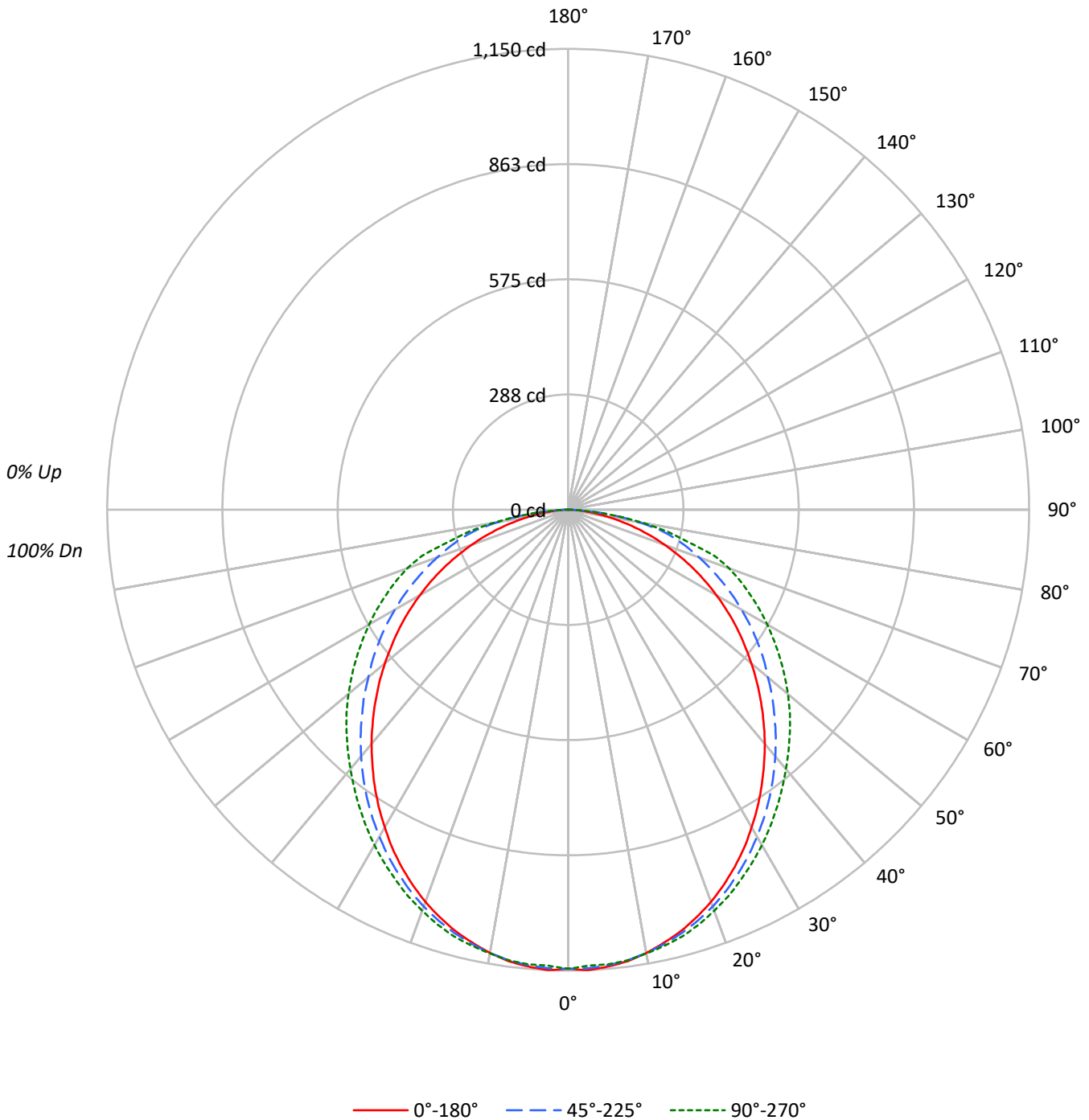
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1541	1541	1541
5°	1546	1541	1538
10°	1534	1534	1536
15°	1516	1524	1535
20°	1491	1509	1525
25°	1460	1488	1513
30°	1422	1464	1502
35°	1382	1439	1491
40°	1341	1411	1484
45°	1295	1384	1489
50°	1249	1361	1497
55°	1203	1353	1513
60°	1149	1344	1543
65°	1089	1345	1594
70°	1007	1367	1679
75°	900	1429	1598
80°	753	1368	1464
85°	570	1053	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.3
10°-20°	308.1	9.4
20°-30°	460.6	14.1
30°-40°	546.4	16.7
40°-50°	562.4	17.2
50°-60°	515.9	15.8
60°-70°	417.1	12.8
70°-80°	270.7	8.3
80°-90°	74.6	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°	876.9	26.9
0°-40°	1423.3	43.6
0°-60°	2501.5	76.6
0°-90°	3264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1144	1137	1141	1140	1139	109
15°	1088	1084	1094	1099	1102	307
25°	983	985	1002	1011	1019	453
35°	842	848	876	895	908	526
45°	681	692	728	762	782	525
55°	513	529	577	624	645	458
65°	342	362	422	478	501	338
75°	173	206	275	307	307	184
85°	37	63	68	66	65	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.5	1145.5	1145.5	1145.5	1145.5
2.5°	1150.0	1141.0	1145.5	1144.4	1138.8
5°	1144.4	1136.6	1141.0	1139.9	1138.8
7.5°	1136.6	1128.7	1134.3	1133.2	1134.3
10°	1123.1	1116.4	1123.1	1124.3	1124.3
12.5°	1106.4	1100.8	1109.7	1112.0	1114.2
15°	1088.5	1084.0	1094.1	1098.6	1101.9
17.5°	1066.1	1062.8	1075.1	1080.7	1085.1
20°	1041.6	1040.4	1053.9	1059.4	1065.0
22.5°	1013.6	1013.6	1029.3	1036.0	1043.8
25°	983.4	984.6	1002.4	1011.4	1019.2
27.5°	951.0	952.2	973.4	984.6	993.5
30°	915.3	919.7	942.1	956.6	966.7
32.5°	879.5	885.1	909.7	926.5	937.6
35°	841.5	848.2	876.2	895.2	907.5
37.5°	802.4	810.2	840.4	861.6	876.2
40°	763.3	772.2	803.5	828.1	844.9
42.5°	721.9	732.0	766.6	795.7	813.6
45°	680.6	691.8	727.5	762.2	782.3
47.5°	639.2	652.7	690.6	728.6	749.9
50°	596.8	610.2	650.4	694.0	715.2
52.5°	554.3	570.0	614.7	659.4	680.6
55°	513.0	528.6	576.7	623.6	644.8
57.5°	470.5	486.1	538.7	587.8	609.1
60°	426.9	444.8	499.5	549.8	573.3
62.5°	384.4	403.4	461.6	515.2	537.5
65°	342.0	362.1	422.4	478.3	500.7
67.5°	298.4	321.9	384.4	441.4	464.9
70°	255.9	281.6	347.6	404.6	426.9
72.5°	214.6	242.5	310.7	368.8	382.2
75°	173.2	205.6	274.9	307.3	307.3
77.5°	134.1	169.9	234.7	247.0	253.7
80°	97.2	136.3	176.6	191.1	188.9
82.5°	64.8	103.9	126.3	126.3	122.9
85°	36.9	62.6	68.2	65.9	64.8
87.5°	15.6	23.5	21.2	16.8	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)