

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: P260854

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260854
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-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3340.0 lumens
Efficiency: N/A
Efficacy: 132.0 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

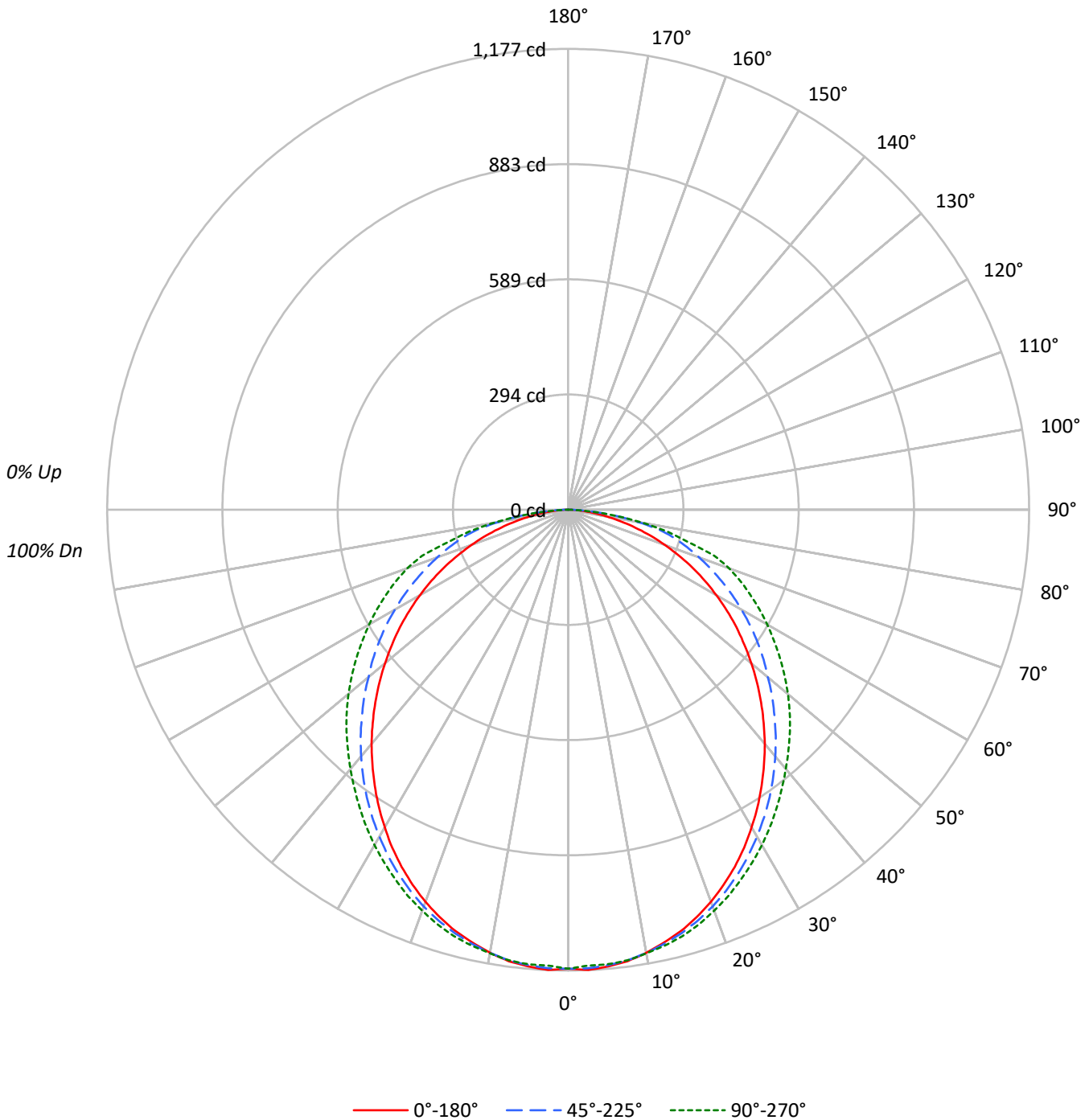
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1577	1577	1577
5°	1582	1577	1574
10°	1570	1570	1572
15°	1551	1560	1571
20°	1526	1544	1560
25°	1494	1523	1548
30°	1455	1498	1537
35°	1414	1473	1525
40°	1372	1444	1518
45°	1325	1417	1523
50°	1278	1393	1532
55°	1231	1384	1548
60°	1175	1376	1579
65°	1114	1376	1631
70°	1030	1399	1718
75°	922	1462	1635
80°	771	1400	1498
85°	582	1078	1024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.3
10°-20°	315.3	9.4
20°-30°	471.3	14.1
30°-40°	559.1	16.7
40°-50°	575.4	17.2
50°-60°	527.9	15.8
60°-70°	426.8	12.8
70°-80°	277.0	8.3
80°-90°	76.4	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°	897.3	26.9
0°-40°	1456.4	43.6
0°-60°	2559.8	76.6
0°-90°	3340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1171	1163	1168	1166	1165	111
15°	1114	1109	1120	1124	1128	314
25°	1006	1008	1026	1035	1043	463
35°	861	868	897	916	929	539
45°	696	708	744	780	800	537
55°	525	541	590	638	660	469
65°	350	370	432	490	512	346
75°	177	210	281	314	314	188
85°	38	64	70	68	66	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.2	1172.2	1172.2	1172.2	1172.2
2.5°	1176.7	1167.6	1172.2	1171.0	1165.3
5°	1171.0	1163.0	1167.6	1166.4	1165.3
7.5°	1163.0	1155.0	1160.7	1159.6	1160.7
10°	1149.3	1142.4	1149.3	1150.4	1150.4
12.5°	1132.1	1126.4	1135.6	1137.9	1140.1
15°	1113.8	1109.3	1119.6	1124.1	1127.6
17.5°	1091.0	1087.5	1100.1	1105.8	1110.4
20°	1065.8	1064.7	1078.4	1084.1	1089.8
22.5°	1037.2	1037.2	1053.2	1060.1	1068.1
25°	1006.3	1007.5	1025.8	1034.9	1042.9
27.5°	973.2	974.3	996.1	1007.5	1016.6
30°	936.6	941.2	964.0	978.9	989.2
32.5°	900.0	905.7	930.9	948.0	959.5
35°	861.1	868.0	896.6	916.0	928.6
37.5°	821.1	829.1	860.0	881.7	896.6
40°	781.1	790.2	822.2	847.4	864.5
42.5°	738.8	749.0	784.5	814.2	832.5
45°	696.4	707.9	744.5	779.9	800.5
47.5°	654.1	667.8	706.7	745.6	767.3
50°	610.7	624.4	665.6	710.2	731.9
52.5°	567.2	583.2	629.0	674.7	696.4
55°	524.9	540.9	590.1	638.1	659.8
57.5°	481.4	497.5	551.2	601.5	623.2
60°	436.8	455.1	511.2	562.6	586.7
62.5°	393.4	412.8	472.3	527.2	550.1
65°	349.9	370.5	432.3	489.5	512.3
67.5°	305.3	329.4	393.4	451.7	475.7
70°	261.9	288.2	355.7	414.0	436.8
72.5°	219.6	248.2	317.9	377.4	391.1
75°	177.3	210.4	281.3	314.5	314.5
77.5°	137.2	173.8	240.2	252.7	259.6
80°	99.5	139.5	180.7	195.6	193.3
82.5°	66.3	106.4	129.2	129.2	125.8
85°	37.7	64.0	69.8	67.5	66.3
87.5°	16.0	24.0	21.7	17.2	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)