

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: P260942

Luminaire Tested: **24CZ-LD5-35SE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260942
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

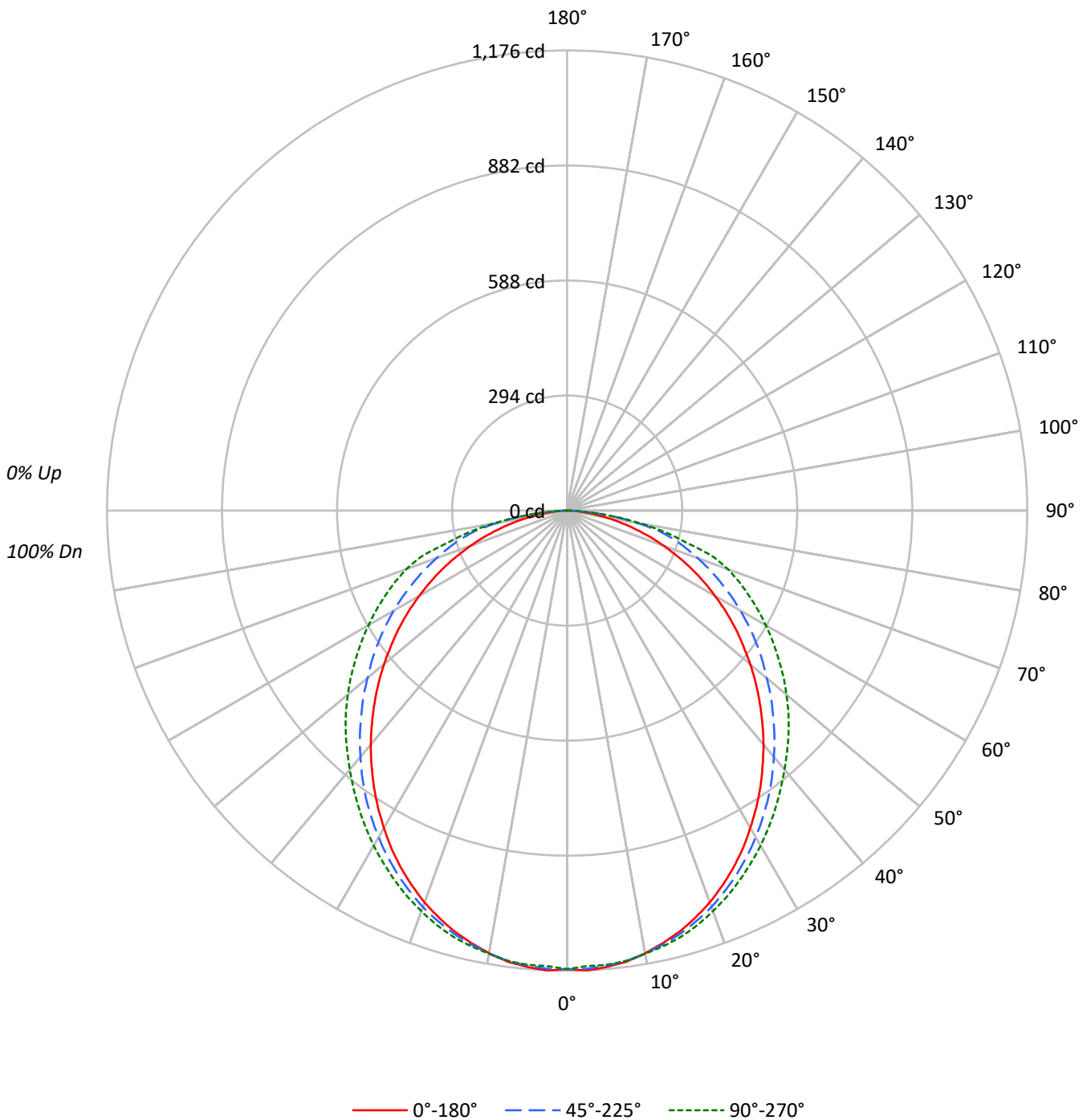
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1581	1576	1573
10°	1570	1570	1571
15°	1551	1559	1570
20°	1526	1544	1560
25°	1493	1522	1548
30°	1455	1497	1536
35°	1414	1472	1525
40°	1371	1444	1518
45°	1325	1416	1523
50°	1278	1393	1532
55°	1231	1384	1547
60°	1175	1375	1578
65°	1114	1376	1631
70°	1030	1399	1718
75°	921	1462	1634
80°	771	1399	1497
85°	582	1076	1024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.3
10°-20°	315.2	9.4
20°-30°	471.1	14.1
30°-40°	558.9	16.7
40°-50°	575.3	17.2
50°-60°	527.7	15.8
60°-70°	426.7	12.8
70°-80°	276.9	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°	897.0	26.9
0°-40°	1456.0	43.6
0°-60°	2559.0	76.6
0°-90°	3339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1171	1163	1167	1166	1165	111
15°	1114	1109	1119	1124	1127	314
25°	1006	1007	1026	1035	1043	463
35°	861	868	896	916	928	538
45°	696	708	744	780	800	537
55°	525	541	590	638	660	469
65°	350	370	432	489	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°	1171.8	1171.8	1171.8	1171.8	1171.8
2.5°	1176.4	1167.2	1171.8	1170.7	1165.0
5°	1170.7	1162.7	1167.2	1166.1	1165.0
7.5°	1162.7	1154.7	1160.4	1159.2	1160.4
10°	1149.0	1142.1	1149.0	1150.1	1150.1
12.5°	1131.8	1126.1	1135.2	1137.5	1139.8
15°	1113.5	1108.9	1119.2	1123.8	1127.2
17.5°	1090.6	1087.2	1099.8	1105.5	1110.1
20°	1065.5	1064.4	1078.1	1083.8	1089.5
22.5°	1036.9	1036.9	1052.9	1059.8	1067.8
25°	1006.0	1007.2	1025.5	1034.6	1042.6
27.5°	972.9	974.0	995.8	1007.2	1016.3
30°	936.3	940.9	963.7	978.6	988.9
32.5°	899.7	905.4	930.6	947.7	959.2
35°	860.9	867.7	896.3	915.7	928.3
37.5°	820.8	828.8	859.7	881.4	896.3
40°	780.8	790.0	822.0	847.1	864.3
42.5°	738.5	748.8	784.3	814.0	832.3
45°	696.2	707.7	744.2	779.7	800.3
47.5°	653.9	667.6	706.5	745.4	767.1
50°	610.5	624.2	665.4	709.9	731.7
52.5°	567.0	583.0	628.8	674.5	696.2
55°	524.7	540.7	589.9	637.9	659.6
57.5°	481.3	497.3	551.0	601.3	623.1
60°	436.7	455.0	511.0	562.5	586.5
62.5°	393.3	412.7	472.2	527.0	549.9
65°	349.8	370.4	432.1	489.3	512.2
67.5°	305.2	329.3	393.3	451.6	475.6
70°	261.8	288.1	355.5	413.9	436.7
72.5°	219.5	248.1	317.8	377.3	391.0
75°	177.2	210.4	281.2	314.4	314.4
77.5°	137.2	173.8	240.1	252.7	259.5
80°	99.5	139.5	180.6	195.5	193.2
82.5°	66.3	106.3	129.2	129.2	125.8
85°	37.7	64.0	69.7	67.5	66.3
87.5°	16.0	24.0	21.7	17.1	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)