

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: P260807

Luminaire Tested: **24CZ-LD5-35SE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260807
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3699.0 lumens
Efficiency: N/A
Efficacy: 138.1 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

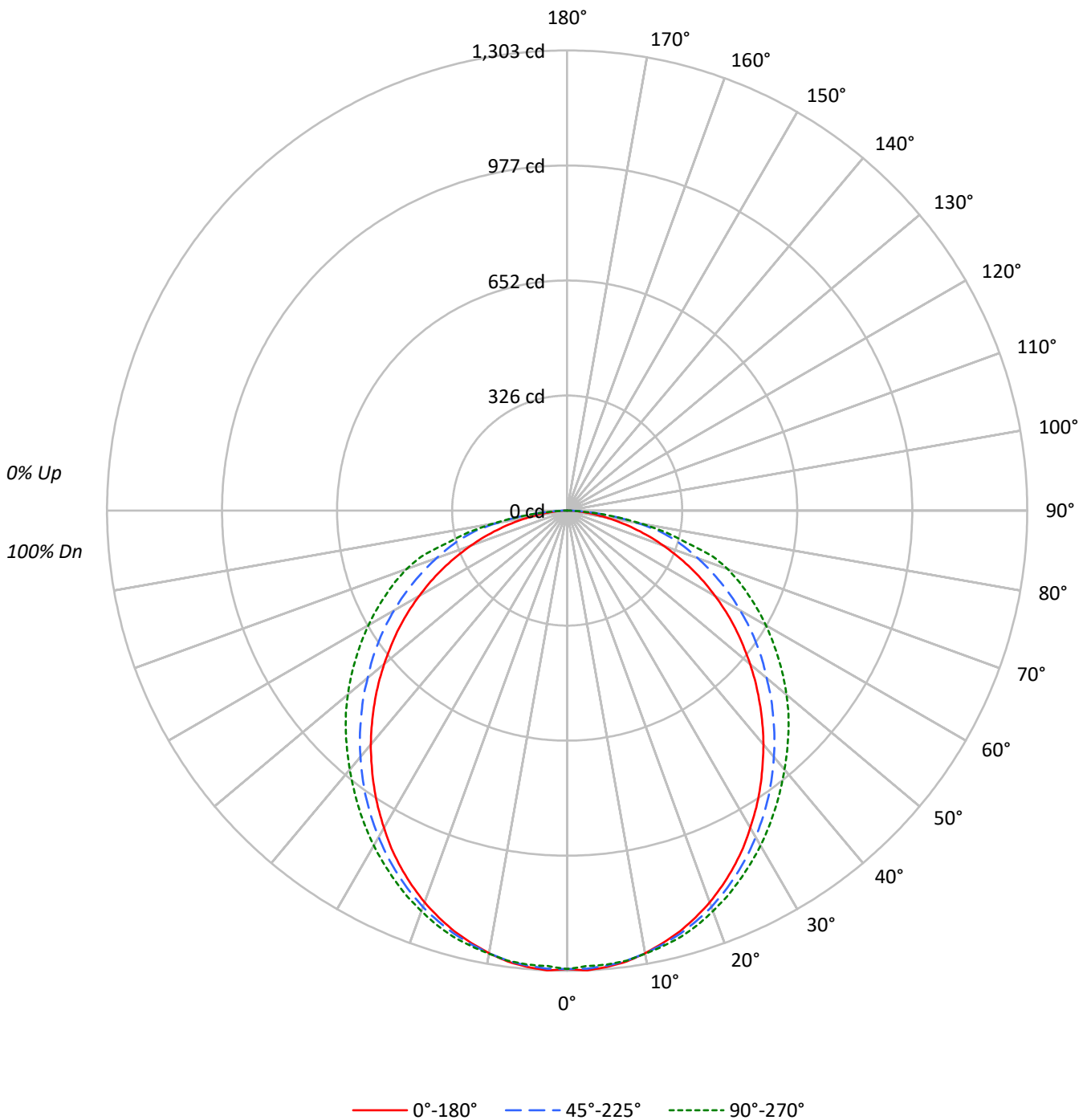
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1747	1747	1747
5°	1752	1746	1743
10°	1739	1739	1741
15°	1718	1727	1740
20°	1690	1710	1728
25°	1655	1686	1715
30°	1612	1659	1702
35°	1566	1631	1689
40°	1519	1599	1682
45°	1468	1569	1687
50°	1416	1543	1697
55°	1364	1533	1714
60°	1302	1523	1748
65°	1234	1524	1806
70°	1141	1550	1903
75°	1020	1620	1811
80°	854	1550	1658
85°	645	1193	1135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.3
10°-20°	349.1	9.4
20°-30°	521.9	14.1
30°-40°	619.2	16.7
40°-50°	637.3	17.2
50°-60°	584.7	15.8
60°-70°	472.7	12.8
70°-80°	306.8	8.3
80°-90°	84.6	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°	993.8	26.9
0°-40°	1612.9	43.6
0°-60°	2834.9	76.6
0°-90°	3699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1297	1288	1293	1292	1291	123
15°	1234	1228	1240	1245	1249	347
25°	1114	1116	1136	1146	1155	513
35°	954	961	993	1014	1028	596
45°	771	784	824	864	886	595
55°	581	599	654	707	731	519
65°	388	410	479	542	567	383
75°	196	233	312	348	348	209
85°	42	71	77	75	74	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.2	1298.2	1298.2	1298.2	1298.2
2.5°	1303.2	1293.1	1298.2	1296.9	1290.6
5°	1296.9	1288.0	1293.1	1291.8	1290.6
7.5°	1288.0	1279.2	1285.5	1284.2	1285.5
10°	1272.8	1265.2	1272.8	1274.1	1274.1
12.5°	1253.8	1247.5	1257.6	1260.2	1262.7
15°	1233.6	1228.5	1239.9	1245.0	1248.8
17.5°	1208.2	1204.4	1218.4	1224.7	1229.8
20°	1180.4	1179.1	1194.3	1200.6	1207.0
22.5°	1148.7	1148.7	1166.4	1174.0	1182.9
25°	1114.5	1115.8	1136.0	1146.2	1155.0
27.5°	1077.8	1079.1	1103.1	1115.8	1125.9
30°	1037.3	1042.3	1067.7	1084.1	1095.5
32.5°	996.7	1003.1	1030.9	1049.9	1062.6
35°	953.7	961.3	992.9	1014.5	1028.4
37.5°	909.3	918.2	952.4	976.5	992.9
40°	865.0	875.1	910.6	938.5	957.5
42.5°	818.2	829.6	868.8	901.7	922.0
45°	771.3	784.0	824.5	863.7	886.5
47.5°	724.4	739.6	782.7	825.8	849.8
50°	676.3	691.5	737.1	786.5	810.6
52.5°	628.2	645.9	696.6	747.2	771.3
55°	581.3	599.1	653.5	706.7	730.8
57.5°	533.2	550.9	610.5	666.2	690.2
60°	483.8	504.1	566.1	623.1	649.7
62.5°	435.7	457.2	523.1	583.9	609.2
65°	387.5	410.3	478.7	542.1	567.4
67.5°	338.2	364.8	435.7	500.3	526.9
70°	290.0	319.2	393.9	458.5	483.8
72.5°	243.2	274.8	352.1	417.9	433.1
75°	196.3	233.0	311.6	348.3	348.3
77.5°	152.0	192.5	266.0	279.9	287.5
80°	110.2	154.5	200.1	216.6	214.0
82.5°	73.5	117.8	143.1	143.1	139.3
85°	41.8	70.9	77.3	74.7	73.5
87.5°	17.7	26.6	24.1	19.0	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)