

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: P260883

Luminaire Tested: **24CZ-LD5-55-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260883
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-LD5-55-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4522.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

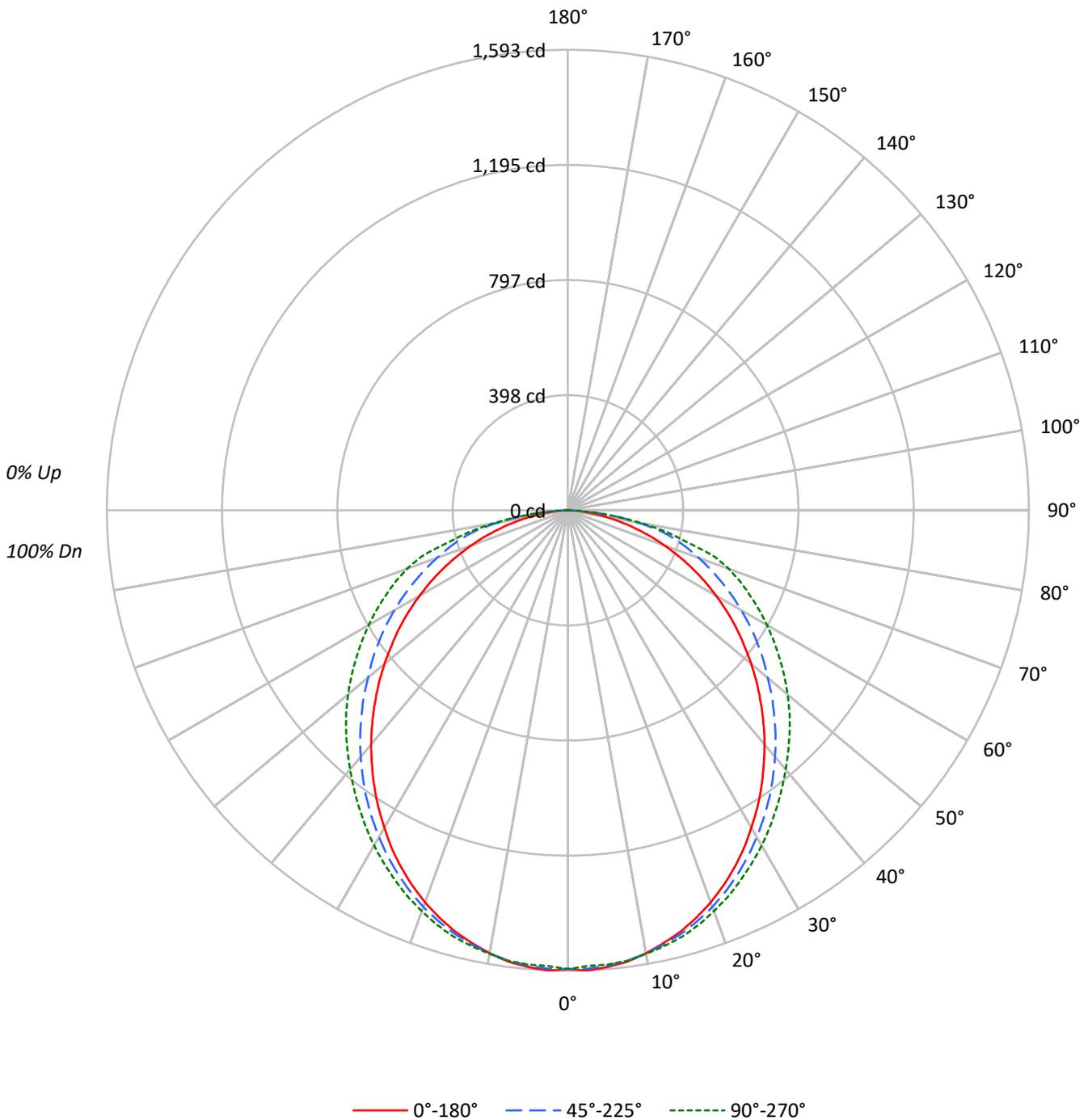
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2135	2135	2135
5°	2141	2135	2131
10°	2126	2126	2128
15°	2101	2111	2126
20°	2066	2090	2113
25°	2023	2062	2096
30°	1970	2028	2081
35°	1915	1994	2065
40°	1857	1955	2056
45°	1794	1918	2062
50°	1731	1886	2074
55°	1667	1874	2096
60°	1591	1862	2137
65°	1508	1863	2208
70°	1395	1894	2327
75°	1248	1980	2214
80°	1044	1895	2028
85°	789	1457	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	3.3
10°-20°	426.8	9.4
20°-30°	638.1	14.1
30°-40°	757.0	16.7
40°-50°	779.1	17.2
50°-60°	714.7	15.8
60°-70°	577.9	12.8
70°-80°	375.1	8.3
80°-90°	103.4	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°	1214.9	26.9
0°-40°	1971.8	43.6
0°-60°	3465.6	76.6
0°-90°	4522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1585	1575	1581	1579	1578	150
15°	1508	1502	1516	1522	1527	425
25°	1362	1364	1389	1401	1412	627
35°	1166	1175	1214	1240	1257	729
45°	943	958	1008	1056	1084	728
55°	711	732	799	864	893	635
65°	474	502	585	663	694	468
75°	240	285	381	426	426	255
85°	51	87	94	91	90	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1593.2	1580.8	1587.0	1585.4	1577.7
5°	1585.4	1574.6	1580.8	1579.2	1577.7
7.5°	1574.6	1563.8	1571.5	1570.0	1571.5
10°	1556.0	1546.7	1556.0	1557.6	1557.6
12.5°	1532.8	1525.1	1537.4	1540.5	1543.6
15°	1508.0	1501.8	1515.8	1522.0	1526.6
17.5°	1477.1	1472.4	1489.4	1497.2	1503.4
20°	1443.0	1441.4	1460.0	1467.8	1475.5
22.5°	1404.3	1404.3	1426.0	1435.3	1446.1
25°	1362.5	1364.0	1388.8	1401.2	1412.0
27.5°	1317.6	1319.1	1348.6	1364.0	1376.4
30°	1268.0	1274.2	1305.2	1325.3	1339.3
32.5°	1218.5	1226.2	1260.3	1283.5	1299.0
35°	1165.9	1175.1	1213.9	1240.2	1257.2
37.5°	1111.7	1122.5	1164.3	1193.7	1213.9
40°	1057.5	1069.9	1113.2	1147.3	1170.5
42.5°	1000.2	1014.1	1062.1	1102.4	1127.1
45°	942.9	958.4	1007.9	1055.9	1083.8
47.5°	885.6	904.2	956.8	1009.5	1038.9
50°	826.8	845.4	901.1	961.5	990.9
52.5°	767.9	789.6	851.6	913.5	942.9
55°	710.7	732.3	798.9	863.9	893.4
57.5°	651.8	673.5	746.3	814.4	843.8
60°	591.4	616.2	692.1	761.8	794.3
62.5°	532.6	558.9	639.4	713.8	744.7
65°	473.8	501.6	585.2	662.7	693.6
67.5°	413.4	445.9	532.6	611.6	644.1
70°	354.6	390.2	481.5	560.5	591.4
72.5°	297.3	336.0	430.4	510.9	529.5
75°	240.0	284.9	380.9	425.8	425.8
77.5°	185.8	235.3	325.1	342.2	351.5
80°	134.7	188.9	244.6	264.8	261.7
82.5°	89.8	144.0	175.0	175.0	170.3
85°	51.1	86.7	94.4	91.3	89.8
87.5°	21.7	32.5	29.4	23.2	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)