

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: P260880

Luminaire Tested: **24CZ-LD5-50-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260880
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-LD5-50-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4738.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

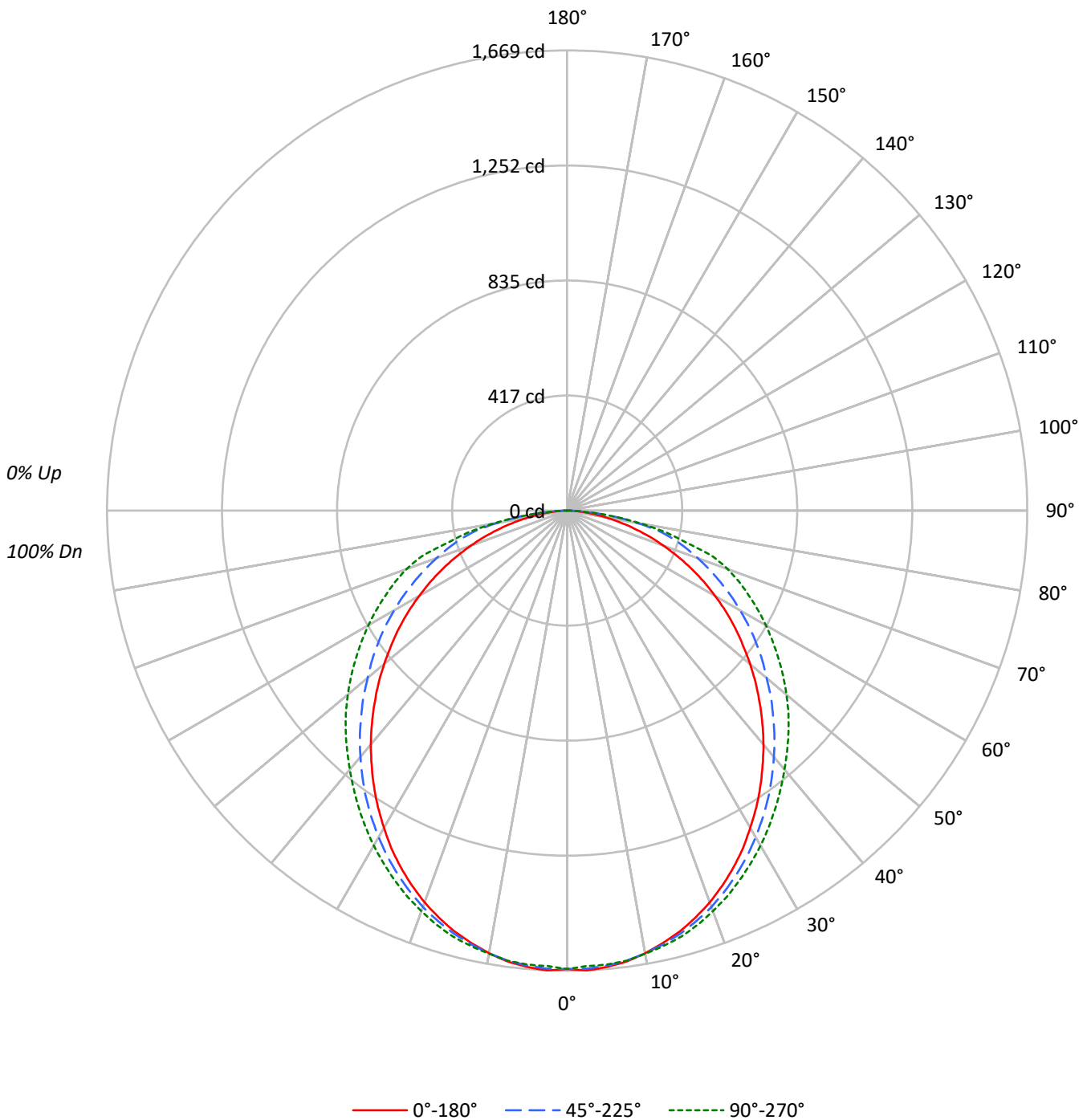
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2237	2237	2237
5°	2244	2237	2233
10°	2227	2227	2230
15°	2201	2212	2228
20°	2165	2190	2214
25°	2119	2160	2196
30°	2064	2125	2180
35°	2006	2089	2164
40°	1946	2049	2154
45°	1880	2010	2161
50°	1813	1976	2173
55°	1747	1964	2196
60°	1668	1951	2239
65°	1580	1952	2314
70°	1461	1985	2438
75°	1307	2075	2319
80°	1093	1986	2125
85°	826	1528	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	3.3
10°-20°	447.2	9.4
20°-30°	668.6	14.1
30°-40°	793.1	16.7
40°-50°	816.3	17.2
50°-60°	748.9	15.8
60°-70°	605.5	12.8
70°-80°	393.0	8.3
80°-90°	108.3	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°	1272.9	26.9
0°-40°	2066.0	43.6
0°-60°	3631.2	76.6
0°-90°	4738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1661	1650	1656	1655	1653	158
15°	1580	1574	1588	1595	1600	445
25°	1428	1429	1455	1468	1480	657
35°	1222	1231	1272	1299	1317	764
45°	988	1004	1056	1106	1136	762
55°	745	767	837	905	936	665
65°	496	526	613	694	727	491
75°	251	298	399	446	446	267
85°	54	91	99	96	94	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.8	1662.8	1662.8	1662.8	1662.8
2.5°	1669.3	1656.3	1662.8	1661.2	1653.1
5°	1661.2	1649.8	1656.3	1654.7	1653.1
7.5°	1649.8	1638.5	1646.6	1644.9	1646.6
10°	1630.3	1620.6	1630.3	1632.0	1632.0
12.5°	1606.0	1597.9	1610.9	1614.1	1617.4
15°	1580.1	1573.6	1588.2	1594.7	1599.5
17.5°	1547.6	1542.7	1560.6	1568.7	1575.2
20°	1511.9	1510.3	1529.8	1537.9	1546.0
22.5°	1471.4	1471.4	1494.1	1503.8	1515.2
25°	1427.6	1429.2	1455.1	1468.1	1479.5
27.5°	1380.5	1382.1	1413.0	1429.2	1442.2
30°	1328.6	1335.1	1367.5	1388.6	1403.2
32.5°	1276.7	1284.8	1320.5	1344.8	1361.1
35°	1221.5	1231.3	1271.8	1299.4	1317.3
37.5°	1164.8	1176.1	1219.9	1250.7	1271.8
40°	1108.0	1121.0	1166.4	1202.1	1226.4
42.5°	1048.0	1062.6	1112.9	1155.0	1181.0
45°	987.9	1004.2	1056.1	1106.4	1135.6
47.5°	927.9	947.4	1002.5	1057.7	1088.5
50°	866.3	885.7	944.1	1007.4	1038.2
52.5°	804.6	827.3	892.2	957.1	987.9
55°	744.6	767.3	837.1	905.2	936.0
57.5°	683.0	705.7	781.9	853.3	884.1
60°	619.7	645.6	725.1	798.1	832.2
62.5°	558.0	585.6	670.0	747.9	780.3
65°	496.4	525.6	613.2	694.3	726.8
67.5°	433.1	467.2	558.0	640.8	674.9
70°	371.5	408.8	504.5	587.2	619.7
72.5°	311.5	352.0	451.0	535.3	554.8
75°	251.4	298.5	399.1	446.1	446.1
77.5°	194.7	246.6	340.7	358.5	368.2
80°	141.1	197.9	256.3	277.4	274.2
82.5°	94.1	150.9	183.3	183.3	178.4
85°	53.5	90.8	99.0	95.7	94.1
87.5°	22.7	34.1	30.8	24.3	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)