

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: P260885

Luminaire Tested: **24CZ-LD5-55-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260885
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4902.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

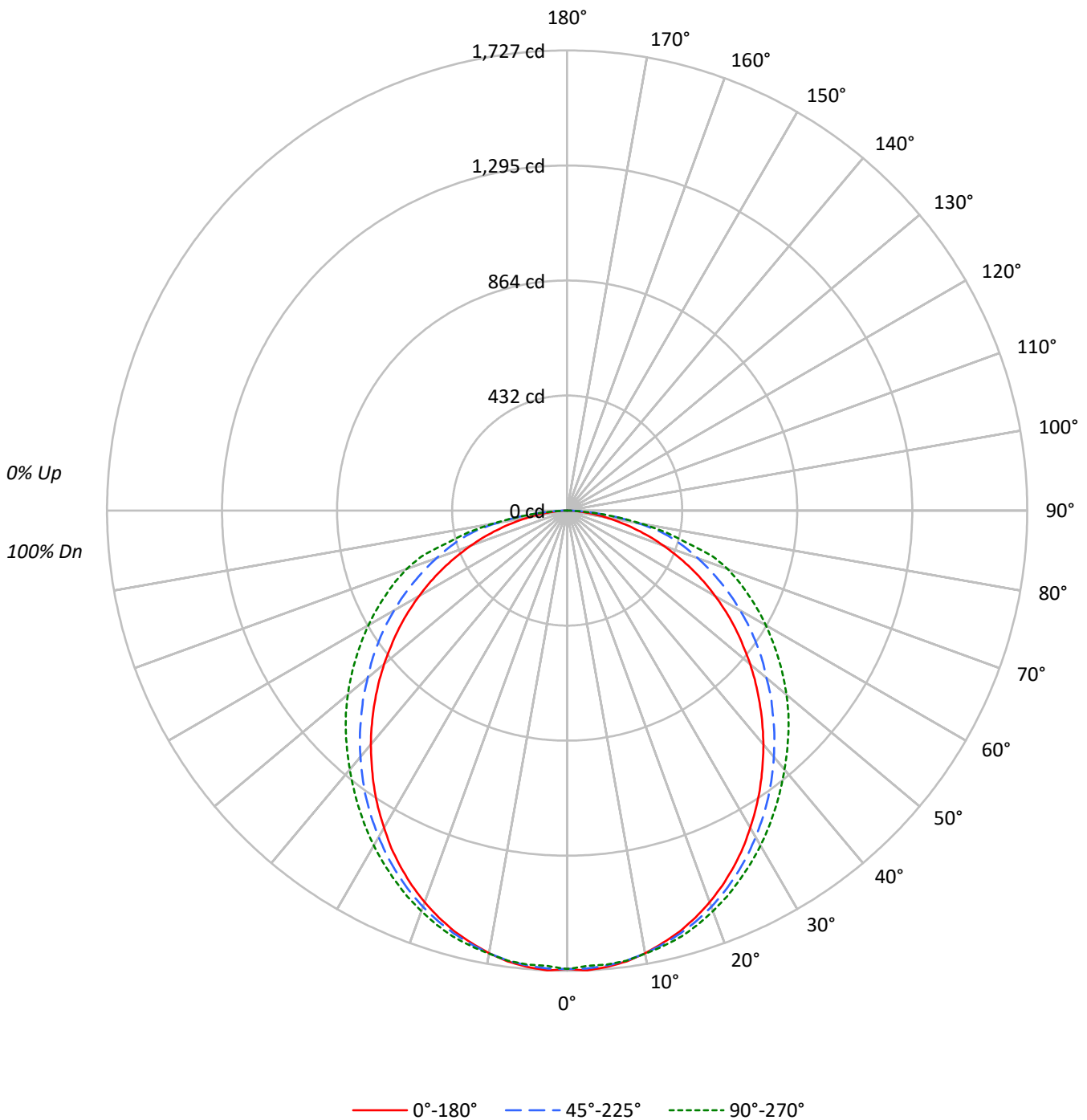
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2315	2315	2315
5°	2321	2314	2310
10°	2305	2305	2307
15°	2277	2289	2305
20°	2240	2266	2290
25°	2193	2235	2272
30°	2136	2198	2256
35°	2076	2161	2239
40°	2013	2120	2229
45°	1945	2079	2236
50°	1876	2045	2249
55°	1807	2031	2272
60°	1725	2019	2317
65°	1635	2020	2394
70°	1512	2054	2522
75°	1353	2146	2400
80°	1131	2055	2197
85°	855	1581	1502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	3.3
10°-20°	462.7	9.4
20°-30°	691.7	14.1
30°-40°	820.6	16.7
40°-50°	844.6	17.2
50°-60°	774.8	15.8
60°-70°	626.5	12.8
70°-80°	406.6	8.3
80°-90°	112.1	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°	1316.9	26.9
0°-40°	2137.5	43.6
0°-60°	3756.9	76.6
0°-90°	4902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1719	1707	1714	1712	1710	163
15°	1635	1628	1643	1650	1655	461
25°	1477	1479	1506	1519	1531	680
35°	1264	1274	1316	1344	1363	790
45°	1022	1039	1093	1145	1175	789
55°	770	794	866	936	968	688
65°	514	544	634	718	752	508
75°	260	309	413	462	462	277
85°	55	94	102	99	97	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1727.1	1713.6	1720.3	1718.7	1710.3
5°	1718.7	1706.9	1713.6	1712.0	1710.3
7.5°	1706.9	1695.2	1703.6	1701.9	1703.6
10°	1686.8	1676.7	1686.8	1688.5	1688.5
12.5°	1661.6	1653.2	1666.6	1670.0	1673.4
15°	1634.7	1628.0	1643.1	1649.9	1654.9
17.5°	1601.2	1596.1	1614.6	1623.0	1629.7
20°	1564.3	1562.6	1582.7	1591.1	1599.5
22.5°	1522.3	1522.3	1545.8	1555.9	1567.6
25°	1477.0	1478.7	1505.5	1518.9	1530.7
27.5°	1428.3	1430.0	1461.9	1478.7	1492.1
30°	1374.6	1381.3	1414.9	1436.7	1451.8
32.5°	1320.9	1329.3	1366.2	1391.4	1408.2
35°	1263.8	1273.9	1315.9	1344.4	1362.9
37.5°	1205.1	1216.8	1262.1	1294.0	1315.9
40°	1146.3	1159.8	1206.8	1243.7	1268.9
42.5°	1084.2	1099.3	1151.4	1195.0	1221.9
45°	1022.1	1038.9	1092.6	1144.7	1174.9
47.5°	960.0	980.2	1037.2	1094.3	1126.2
50°	896.3	916.4	976.8	1042.3	1074.2
52.5°	832.5	856.0	923.1	990.2	1022.1
55°	770.4	793.9	866.0	936.5	968.4
57.5°	706.6	730.1	809.0	882.8	914.7
60°	641.1	668.0	750.2	825.8	861.0
62.5°	577.4	605.9	693.2	773.7	807.3
65°	513.6	543.8	634.4	718.3	751.9
67.5°	448.1	483.4	577.4	663.0	698.2
70°	384.4	423.0	522.0	607.6	641.1
72.5°	322.3	364.2	466.6	553.9	574.0
75°	260.2	308.8	412.9	461.6	461.6
77.5°	201.4	255.1	352.5	370.9	381.0
80°	146.0	204.8	265.2	287.0	283.6
82.5°	97.3	156.1	189.7	189.7	184.6
85°	55.4	94.0	102.4	99.0	97.3
87.5°	23.5	35.2	31.9	25.2	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)