

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: P263120

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-SQP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5290.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

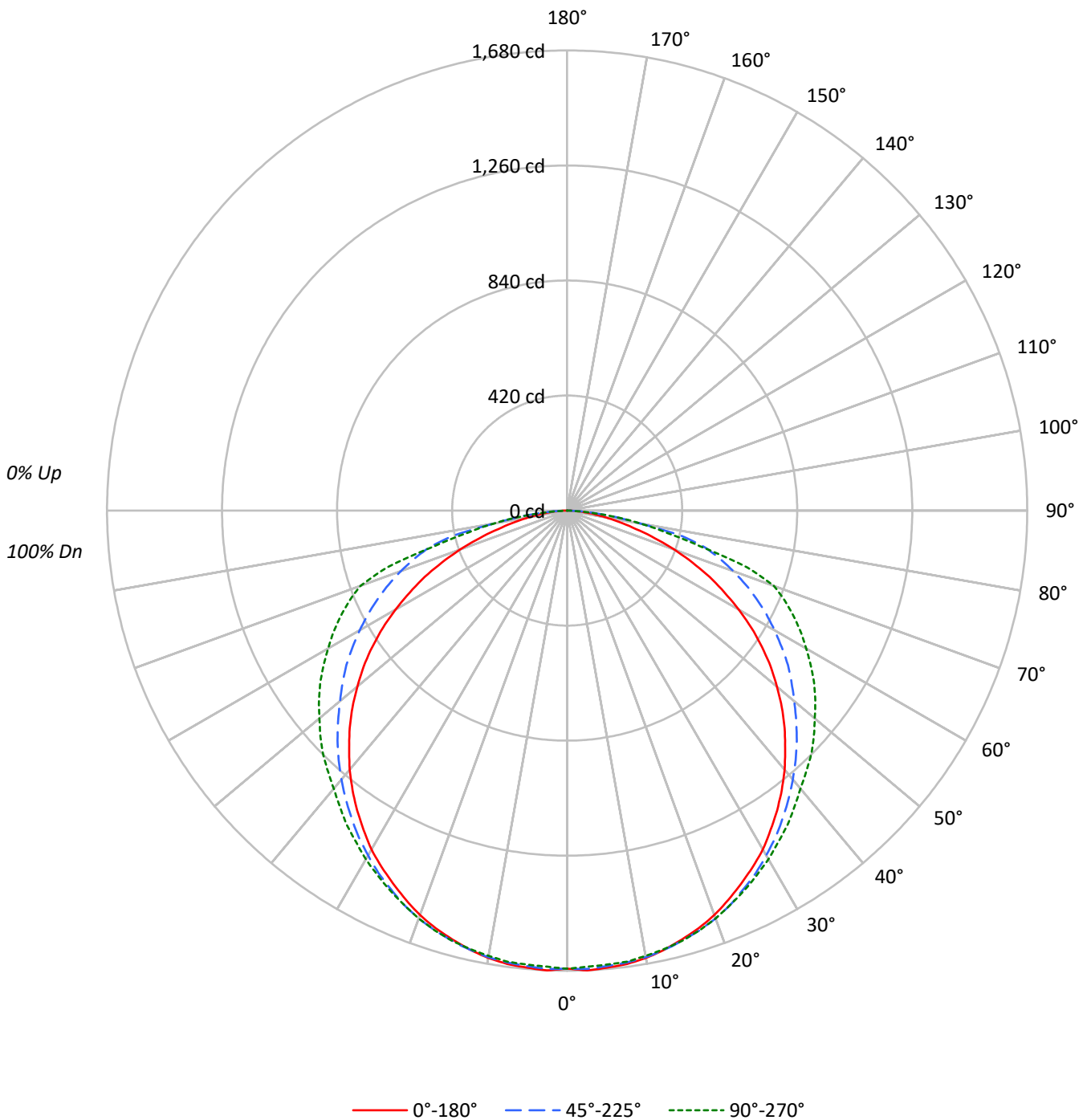
Input Watts (W): 61.265796
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2250	2250	2250
5°	2262	2255	2248
10°	2266	2262	2255
15°	2257	2265	2265
20°	2250	2269	2269
25°	2231	2264	2272
30°	2220	2259	2284
35°	2195	2253	2303
40°	2169	2251	2328
45°	2137	2257	2397
50°	2093	2265	2471
55°	2038	2308	2583
60°	1949	2353	2713
65°	1827	2427	2905
70°	1634	2537	3160
75°	1350	2713	2614
80°	1101	2096	2117
85°	886	1392	1308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	3.0
10°-20°	458.3	8.7
20°-30°	700.4	13.2
30°-40°	856.7	16.2
40°-50°	916.6	17.3
50°-60°	877.7	16.6
60°-70°	742.5	14.0
70°-80°	470.7	8.9
80°-90°	108.3	2.0
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°	1317.5	24.9
0°-40°	2174.2	41.1
0°-60°	3968.6	75.0
0°-90°	5290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1675	1667	1670	1667	1664	159
15°	1620	1618	1626	1626	1626	458
25°	1503	1503	1525	1530	1530	693
35°	1336	1344	1372	1391	1402	836
45°	1123	1142	1186	1235	1260	865
55°	869	896	984	1066	1101	775
65°	574	628	762	866	913	565
75°	260	366	522	519	503	282
85°	57	87	90	82	85	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.3	1672.3	1672.3	1672.3	1672.3
2.5°	1680.5	1672.3	1675.0	1672.3	1666.8
5°	1675.0	1666.8	1669.5	1666.8	1664.1
7.5°	1669.5	1661.3	1664.1	1661.3	1661.3
10°	1658.6	1650.4	1655.9	1653.1	1650.4
12.5°	1642.2	1636.7	1642.2	1639.5	1639.5
15°	1620.4	1617.6	1625.8	1625.8	1625.8
17.5°	1598.5	1595.8	1606.7	1606.7	1606.7
20°	1571.2	1568.4	1584.8	1584.8	1584.8
22.5°	1538.4	1535.6	1557.5	1557.5	1557.5
25°	1502.9	1502.9	1524.7	1530.2	1530.2
27.5°	1467.3	1467.3	1491.9	1500.1	1500.1
30°	1429.1	1429.1	1453.7	1464.6	1470.1
32.5°	1382.6	1388.1	1415.4	1429.1	1434.5
35°	1336.2	1344.4	1371.7	1390.8	1401.8
37.5°	1287.0	1295.2	1328.0	1349.8	1363.5
40°	1235.1	1246.0	1281.5	1308.9	1325.2
42.5°	1177.7	1194.1	1235.1	1270.6	1292.5
45°	1123.0	1142.2	1185.9	1235.1	1259.7
47.5°	1062.9	1084.8	1134.0	1196.8	1221.4
50°	1000.1	1021.9	1082.1	1153.1	1180.4
52.5°	937.2	961.8	1032.9	1109.4	1142.2
55°	868.9	896.2	983.7	1065.7	1101.2
57.5°	797.9	830.7	929.0	1016.5	1054.7
60°	724.1	765.1	874.4	967.3	1008.3
62.5°	647.6	696.8	819.7	918.1	961.8
65°	573.8	628.5	762.4	866.2	912.6
67.5°	494.6	562.9	705.0	817.0	860.7
70°	415.3	494.6	644.9	759.6	803.3
72.5°	336.1	431.7	584.7	688.6	688.6
75°	259.6	366.2	521.9	519.2	502.8
77.5°	196.7	306.0	429.0	366.2	368.9
80°	142.1	245.9	270.5	270.5	273.2
82.5°	95.6	188.5	174.9	172.1	177.6
85°	57.4	87.4	90.2	82.0	84.7
87.5°	27.3	30.1	24.6	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)