

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: P263311

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263311
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-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5216.0 lumens
Efficiency: N/A
Efficacy: 85.5 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

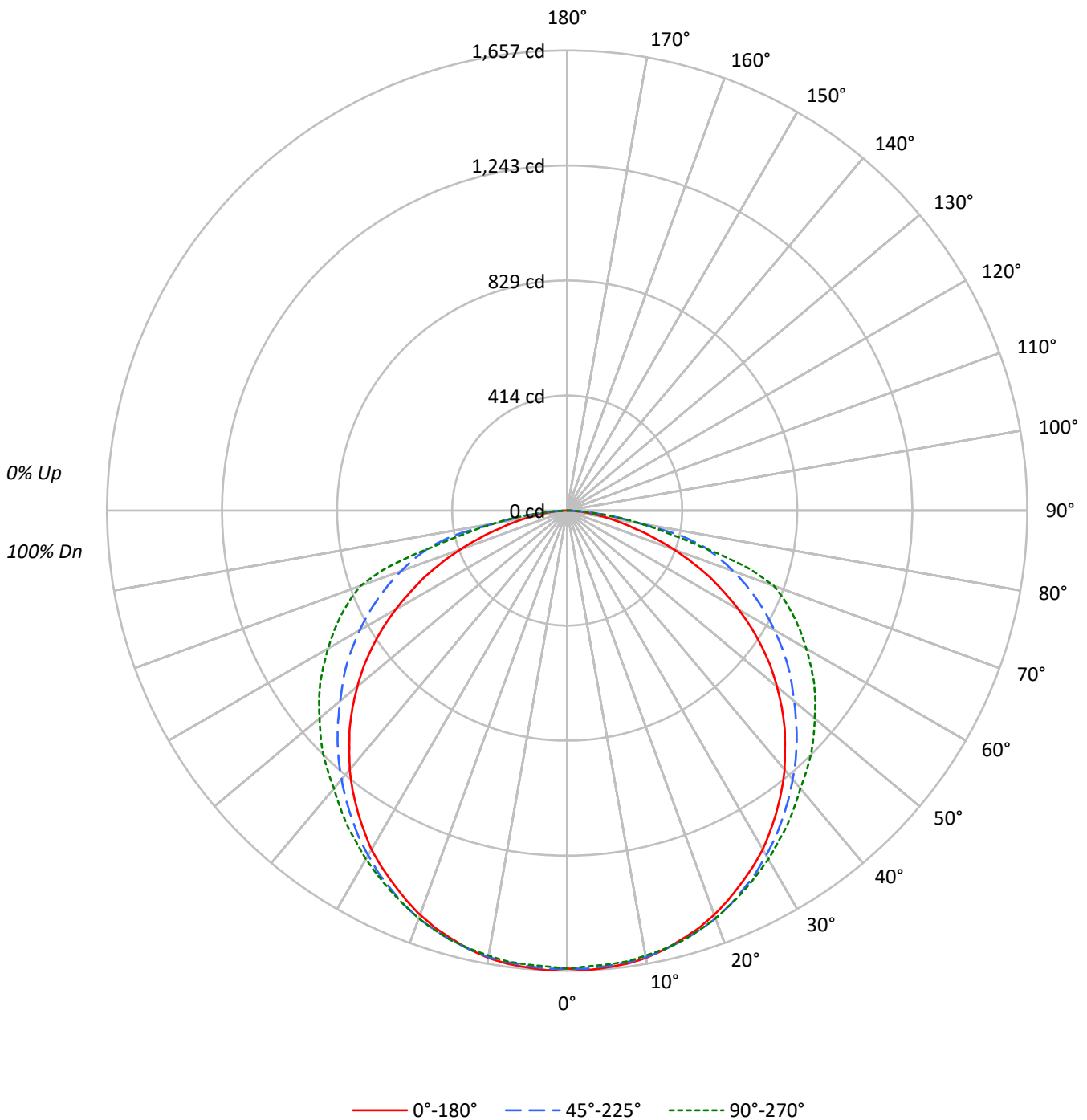
Input Watts (W): 61.008
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2219	2219	2219
5°	2231	2223	2216
10°	2234	2231	2223
15°	2226	2233	2233
20°	2218	2238	2238
25°	2200	2232	2240
30°	2189	2227	2252
35°	2164	2222	2270
40°	2139	2219	2295
45°	2107	2225	2363
50°	2064	2233	2436
55°	2010	2275	2547
60°	1921	2320	2675
65°	1801	2393	2865
70°	1611	2501	3116
75°	1331	2675	2577
80°	1086	2066	2087
85°	874	1372	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	3.0
10°-20°	451.9	8.7
20°-30°	690.6	13.2
30°-40°	844.7	16.2
40°-50°	903.8	17.3
50°-60°	865.5	16.6
60°-70°	732.1	14.0
70°-80°	464.1	8.9
80°-90°	106.7	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°	1299.1	24.9
0°-40°	2143.8	41.1
0°-60°	3913.1	75.0
0°-90°	5216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1652	1644	1646	1644	1641	157
15°	1598	1595	1603	1603	1603	451
25°	1482	1482	1503	1509	1509	684
35°	1318	1326	1352	1371	1382	824
45°	1107	1126	1169	1218	1242	853
55°	857	884	970	1051	1086	764
65°	566	620	752	854	900	557
75°	256	361	515	512	496	278
85°	57	86	89	81	84	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1648.9	1648.9	1648.9	1648.9	1648.9
2.5°	1657.0	1648.9	1651.6	1648.9	1643.5
5°	1651.6	1643.5	1646.2	1643.5	1640.8
7.5°	1646.2	1638.1	1640.8	1638.1	1638.1
10°	1635.4	1627.3	1632.7	1630.0	1627.3
12.5°	1619.2	1613.9	1619.2	1616.5	1616.5
15°	1597.7	1595.0	1603.1	1603.1	1603.1
17.5°	1576.1	1573.4	1584.2	1584.2	1584.2
20°	1549.2	1546.5	1562.7	1562.7	1562.7
22.5°	1516.9	1514.2	1535.7	1535.7	1535.7
25°	1481.8	1481.8	1503.4	1508.8	1508.8
27.5°	1446.8	1446.8	1471.1	1479.1	1479.1
30°	1409.1	1409.1	1433.3	1444.1	1449.5
32.5°	1363.3	1368.7	1395.6	1409.1	1414.5
35°	1317.5	1325.6	1352.5	1371.4	1382.1
37.5°	1269.0	1277.1	1309.4	1331.0	1344.4
40°	1217.8	1228.6	1263.6	1290.5	1306.7
42.5°	1161.2	1177.4	1217.8	1252.8	1274.4
45°	1107.3	1126.2	1169.3	1217.8	1242.0
47.5°	1048.1	1069.6	1118.1	1180.1	1204.3
50°	986.1	1007.6	1066.9	1137.0	1163.9
52.5°	924.1	948.4	1018.4	1093.9	1126.2
55°	856.8	883.7	969.9	1050.8	1085.8
57.5°	786.7	819.0	916.0	1002.3	1040.0
60°	714.0	754.4	862.2	953.8	994.2
62.5°	638.5	687.0	808.3	905.3	948.4
65°	565.8	619.7	751.7	854.1	899.9
67.5°	487.7	555.0	695.1	805.6	848.7
70°	409.5	487.7	635.8	749.0	792.1
72.5°	331.4	425.7	576.6	678.9	678.9
75°	256.0	361.0	514.6	511.9	495.7
77.5°	194.0	301.8	423.0	361.0	363.7
80°	140.1	242.5	266.7	266.7	269.4
82.5°	94.3	185.9	172.4	169.7	175.1
85°	56.6	86.2	88.9	80.8	83.5
87.5°	26.9	29.6	24.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)