

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: P263725

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5117.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

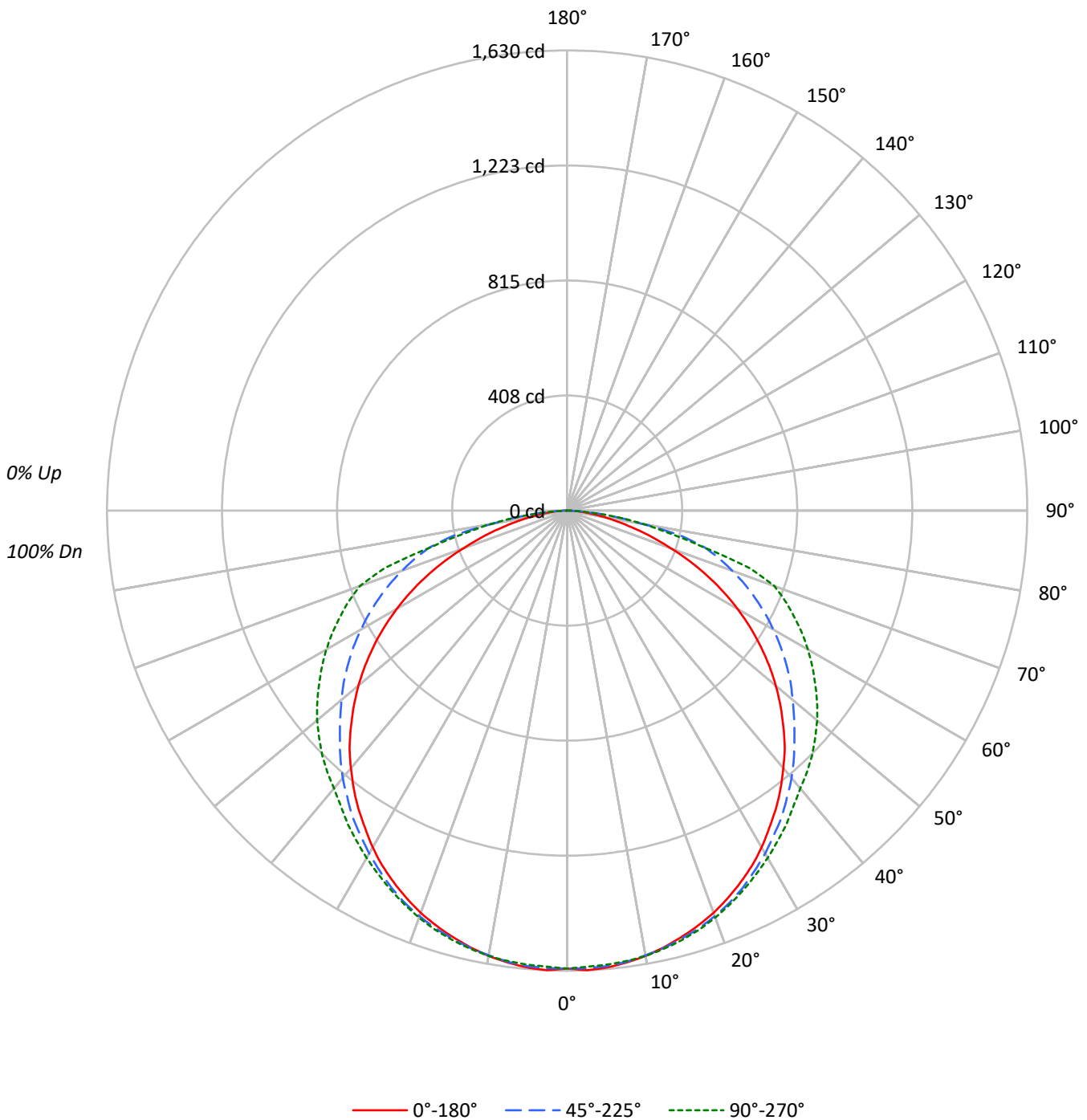
Input Watts (W): 58.683
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	2183	2183	2183
5°	2194	2187	2181
10°	2189	2185	2189
15°	2179	2186	2193
20°	2171	2189	2196
25°	2158	2188	2199
30°	2141	2180	2207
35°	2118	2176	2226
40°	2093	2172	2256
45°	2061	2166	2334
50°	2019	2183	2420
55°	1962	2222	2517
60°	1877	2271	2650
65°	1748	2342	2823
70°	1546	2448	3072
75°	1297	2619	2580
80°	1034	2069	2147
85°	817	1400	1283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.0
10°-20°	442.8	8.7
20°-30°	676.3	13.2
30°-40°	826.8	16.2
40°-50°	885.0	17.3
50°-60°	848.9	16.6
60°-70°	716.8	14.0
70°-80°	458.1	9.0
80°-90°	108.3	2.1
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°	1273.0	24.9
0°-40°	2099.8	41.0
0°-60°	3833.8	74.9
0°-90°	5117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1625	1615	1620	1617	1615	154
15°	1564	1559	1569	1574	1574	442
25°	1453	1451	1474	1479	1481	670
35°	1290	1300	1325	1342	1355	806
45°	1083	1101	1138	1191	1227	835
55°	836	864	947	1033	1073	746
65°	549	602	736	839	887	542
75°	249	355	504	514	496	268
85°	53	88	91	88	83	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1629.7	1619.6	1622.1	1622.1	1617.1
5°	1624.7	1614.6	1619.6	1617.1	1614.6
7.5°	1614.6	1607.0	1612.1	1612.1	1609.5
10°	1602.0	1594.4	1599.5	1602.0	1602.0
12.5°	1584.3	1579.3	1586.9	1586.9	1589.4
15°	1564.2	1559.2	1569.2	1574.3	1574.3
17.5°	1541.5	1539.0	1551.6	1554.1	1556.6
20°	1516.3	1513.8	1528.9	1528.9	1534.0
22.5°	1486.1	1483.6	1503.7	1503.7	1508.8
25°	1453.4	1450.9	1473.5	1478.6	1481.1
27.5°	1418.1	1415.6	1438.3	1445.8	1450.9
30°	1377.8	1377.8	1403.0	1413.1	1420.6
32.5°	1332.5	1340.0	1362.7	1377.8	1387.9
35°	1289.6	1299.7	1324.9	1342.5	1355.1
37.5°	1241.8	1251.9	1279.6	1302.2	1317.4
40°	1191.4	1204.0	1236.7	1261.9	1284.6
42.5°	1141.0	1153.6	1188.9	1226.7	1256.9
45°	1083.1	1100.7	1138.5	1191.4	1226.7
47.5°	1025.2	1042.8	1090.7	1156.1	1191.4
50°	964.7	984.9	1042.8	1118.4	1156.1
52.5°	901.7	924.4	997.5	1078.1	1115.8
55°	836.3	864.0	947.1	1032.7	1073.0
57.5°	768.2	798.5	896.7	987.4	1030.2
60°	697.7	735.5	843.8	939.5	984.9
62.5°	624.7	670.0	790.9	889.1	937.0
65°	549.1	602.0	735.5	838.8	886.6
67.5°	471.0	541.6	680.1	788.4	836.3
70°	392.9	476.1	622.2	733.0	780.8
72.5°	319.9	415.6	564.2	667.5	677.6
75°	249.4	355.2	503.8	513.8	496.2
77.5°	186.4	294.7	415.6	370.3	367.8
80°	133.5	236.8	267.0	274.6	277.1
82.5°	88.2	178.8	173.8	178.8	176.3
85°	52.9	88.2	90.7	88.2	83.1
87.5°	25.2	32.7	25.2	22.7	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)