

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: P263297

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263297
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-LD5-70-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4659.0 lumens
Efficiency: N/A
Efficacy: 85.8 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

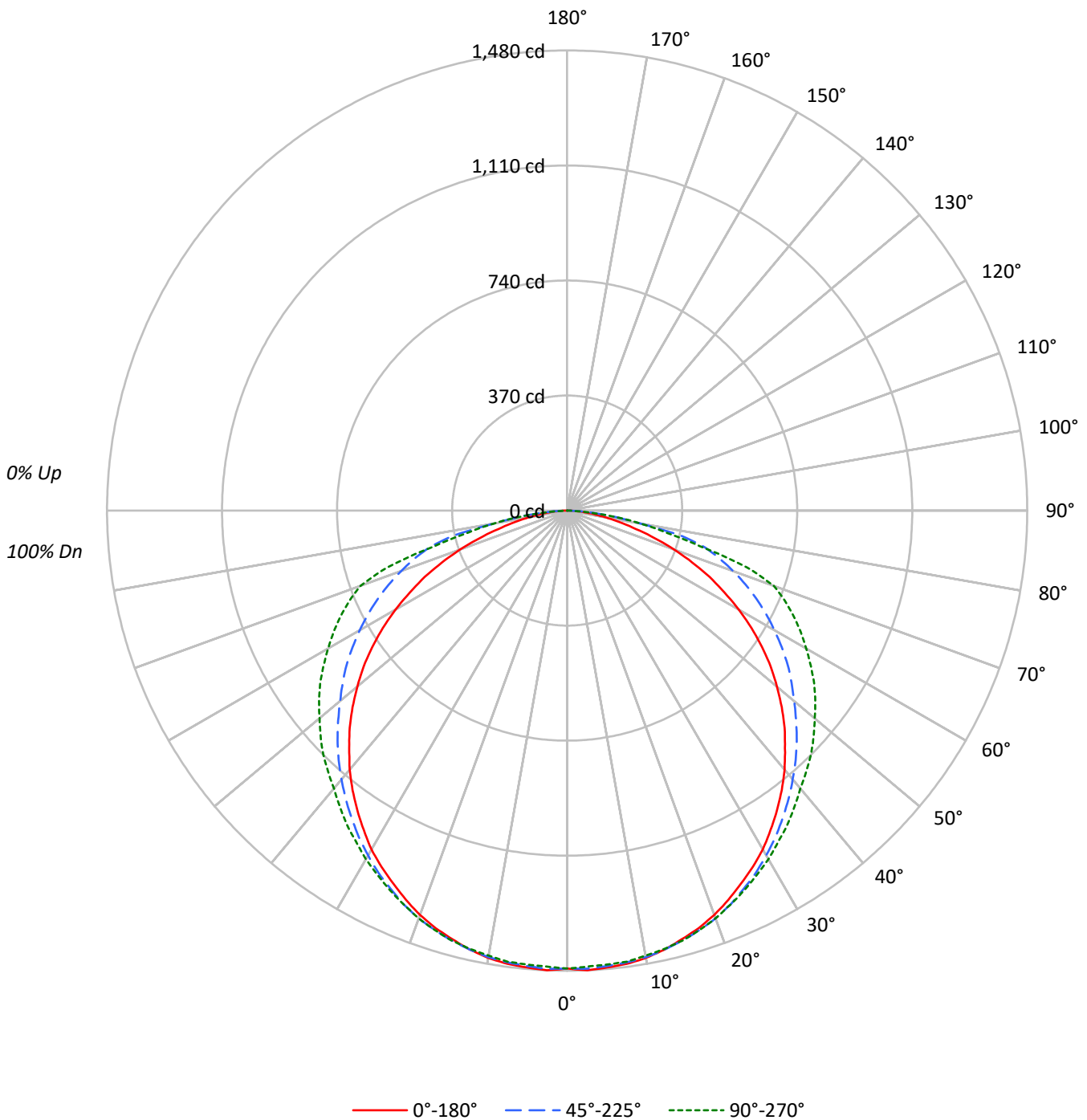
Input Watts (W): 54.312
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1982	1982	1982
5°	1992	1986	1979
10°	1996	1993	1986
15°	1988	1995	1995
20°	1981	1999	1999
25°	1965	1993	2001
30°	1955	1989	2011
35°	1933	1984	2028
40°	1911	1982	2050
45°	1882	1987	2111
50°	1844	1995	2176
55°	1795	2032	2275
60°	1716	2072	2390
65°	1609	2138	2559
70°	1439	2234	2783
75°	1188	2389	2302
80°	969	1846	1865
85°	780	1226	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.0
10°-20°	403.6	8.7
20°-30°	616.9	13.2
30°-40°	754.5	16.2
40°-50°	807.3	17.3
50°-60°	773.0	16.6
60°-70°	653.9	14.0
70°-80°	414.5	8.9
80°-90°	95.4	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°	1160.4	24.9
0°-40°	1914.9	41.1
0°-60°	3495.2	75.0
0°-90°	4659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1475	1468	1470	1468	1466	140
15°	1427	1425	1432	1432	1432	403
25°	1324	1324	1343	1348	1348	611
35°	1177	1184	1208	1225	1235	736
45°	989	1006	1044	1088	1109	762
55°	765	789	866	938	970	683
65°	505	554	671	763	804	498
75°	229	322	460	457	443	249
85°	50	77	79	72	75	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.8	1472.8	1472.8	1472.8	1472.8
2.5°	1480.0	1472.8	1475.2	1472.8	1468.0
5°	1475.2	1468.0	1470.4	1468.0	1465.6
7.5°	1470.4	1463.2	1465.6	1463.2	1463.2
10°	1460.8	1453.5	1458.4	1456.0	1453.5
12.5°	1446.3	1441.5	1446.3	1443.9	1443.9
15°	1427.1	1424.7	1431.9	1431.9	1431.9
17.5°	1407.8	1405.4	1415.0	1415.0	1415.0
20°	1383.8	1381.3	1395.8	1395.8	1395.8
22.5°	1354.9	1352.5	1371.7	1371.7	1371.7
25°	1323.6	1323.6	1342.8	1347.7	1347.7
27.5°	1292.3	1292.3	1314.0	1321.2	1321.2
30°	1258.6	1258.6	1280.3	1289.9	1294.7
32.5°	1217.7	1222.5	1246.6	1258.6	1263.4
35°	1176.8	1184.0	1208.1	1224.9	1234.6
37.5°	1133.5	1140.7	1169.6	1188.8	1200.9
40°	1087.8	1097.4	1128.7	1152.7	1167.2
42.5°	1037.2	1051.7	1087.8	1119.0	1138.3
45°	989.1	1005.9	1044.4	1087.8	1109.4
47.5°	936.1	955.4	998.7	1054.1	1075.7
50°	880.8	900.0	953.0	1015.6	1039.6
52.5°	825.4	847.1	909.7	977.1	1005.9
55°	765.3	789.3	866.4	938.5	969.8
57.5°	702.7	731.6	818.2	895.2	928.9
60°	637.7	673.8	770.1	851.9	888.0
62.5°	570.3	613.7	722.0	808.6	847.1
65°	505.4	553.5	671.4	762.9	803.8
67.5°	435.6	495.7	620.9	719.6	758.1
70°	365.8	435.6	567.9	669.0	707.5
72.5°	296.0	380.2	515.0	606.4	606.4
75°	228.6	322.5	459.6	457.2	442.8
77.5°	173.3	269.5	377.8	322.5	324.9
80°	125.1	216.6	238.2	238.2	240.7
82.5°	84.2	166.1	154.0	151.6	156.4
85°	50.5	77.0	79.4	72.2	74.6
87.5°	24.1	26.5	21.7	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)