

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: P263430

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263430
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-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3803.0 lumens
Efficiency: N/A
Efficacy: 71.5 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

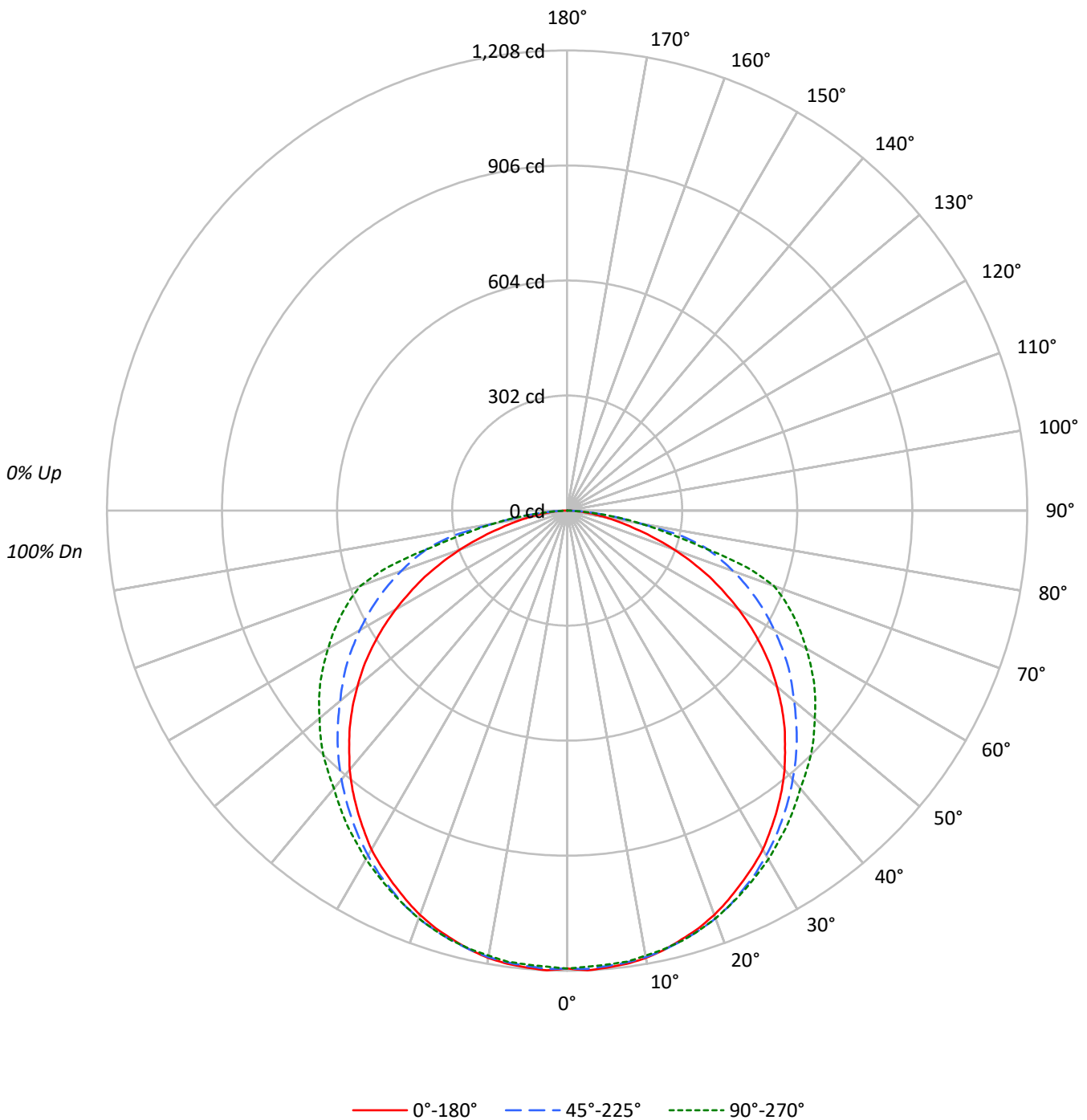
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1618	1618	1618
5°	1626	1621	1616
10°	1629	1626	1621
15°	1623	1628	1628
20°	1617	1631	1631
25°	1604	1627	1633
30°	1596	1624	1642
35°	1578	1620	1655
40°	1560	1618	1673
45°	1536	1622	1723
50°	1505	1628	1776
55°	1465	1659	1857
60°	1401	1692	1951
65°	1313	1745	2089
70°	1175	1824	2272
75°	970	1951	1879
80°	791	1507	1522
85°	638	1000	940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.0
10°-20°	329.5	8.7
20°-30°	503.5	13.2
30°-40°	615.9	16.2
40°-50°	659.0	17.3
50°-60°	631.0	16.6
60°-70°	533.8	14.0
70°-80°	338.4	8.9
80°-90°	77.8	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°	947.2	24.9
0°-40°	1563.0	41.1
0°-60°	2853.0	75.0
0°-90°	3803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1204	1198	1200	1198	1196	115
15°	1165	1163	1169	1169	1169	329
25°	1080	1080	1096	1100	1100	498
35°	961	966	986	1000	1008	601
45°	807	821	852	888	906	622
55°	625	644	707	766	792	557
65°	412	452	548	623	656	406
75°	187	263	375	373	361	203
85°	41	63	65	59	61	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.2	1202.2	1202.2	1202.2	1202.2
2.5°	1208.1	1202.2	1204.2	1202.2	1198.3
5°	1204.2	1198.3	1200.2	1198.3	1196.3
7.5°	1200.2	1194.3	1196.3	1194.3	1194.3
10°	1192.4	1186.5	1190.4	1188.4	1186.5
12.5°	1180.6	1176.7	1180.6	1178.6	1178.6
15°	1164.9	1162.9	1168.8	1168.8	1168.8
17.5°	1149.2	1147.2	1155.1	1155.1	1155.1
20°	1129.5	1127.6	1139.3	1139.3	1139.3
22.5°	1105.9	1104.0	1119.7	1119.7	1119.7
25°	1080.4	1080.4	1096.1	1100.1	1100.1
27.5°	1054.9	1054.9	1072.6	1078.4	1078.4
30°	1027.4	1027.4	1045.0	1052.9	1056.8
32.5°	994.0	997.9	1017.5	1027.4	1031.3
35°	960.6	966.5	986.1	999.9	1007.7
37.5°	925.2	931.1	954.7	970.4	980.2
40°	887.9	895.8	921.3	940.9	952.7
42.5°	846.6	858.4	887.9	913.4	929.2
45°	807.4	821.1	852.5	887.9	905.6
47.5°	764.1	779.9	815.2	860.4	878.1
50°	719.0	734.7	777.9	829.0	848.6
52.5°	673.8	691.5	742.5	797.5	821.1
55°	624.7	644.3	707.2	766.1	791.6
57.5°	573.6	597.2	667.9	730.7	758.3
60°	520.6	550.0	628.6	695.4	724.9
62.5°	465.6	500.9	589.3	660.0	691.5
65°	412.5	451.8	548.1	622.7	656.1
67.5°	355.6	404.7	506.8	587.3	618.8
70°	298.6	355.6	463.6	546.1	577.5
72.5°	241.6	310.4	420.4	495.0	495.0
75°	186.6	263.2	375.2	373.2	361.4
77.5°	141.4	220.0	308.4	263.2	265.2
80°	102.1	176.8	194.5	194.5	196.4
82.5°	68.8	135.5	125.7	123.8	127.7
85°	41.3	62.9	64.8	58.9	60.9
87.5°	19.6	21.6	17.7	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)