

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: P263277

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263277
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-LD5-60-SQP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3770.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

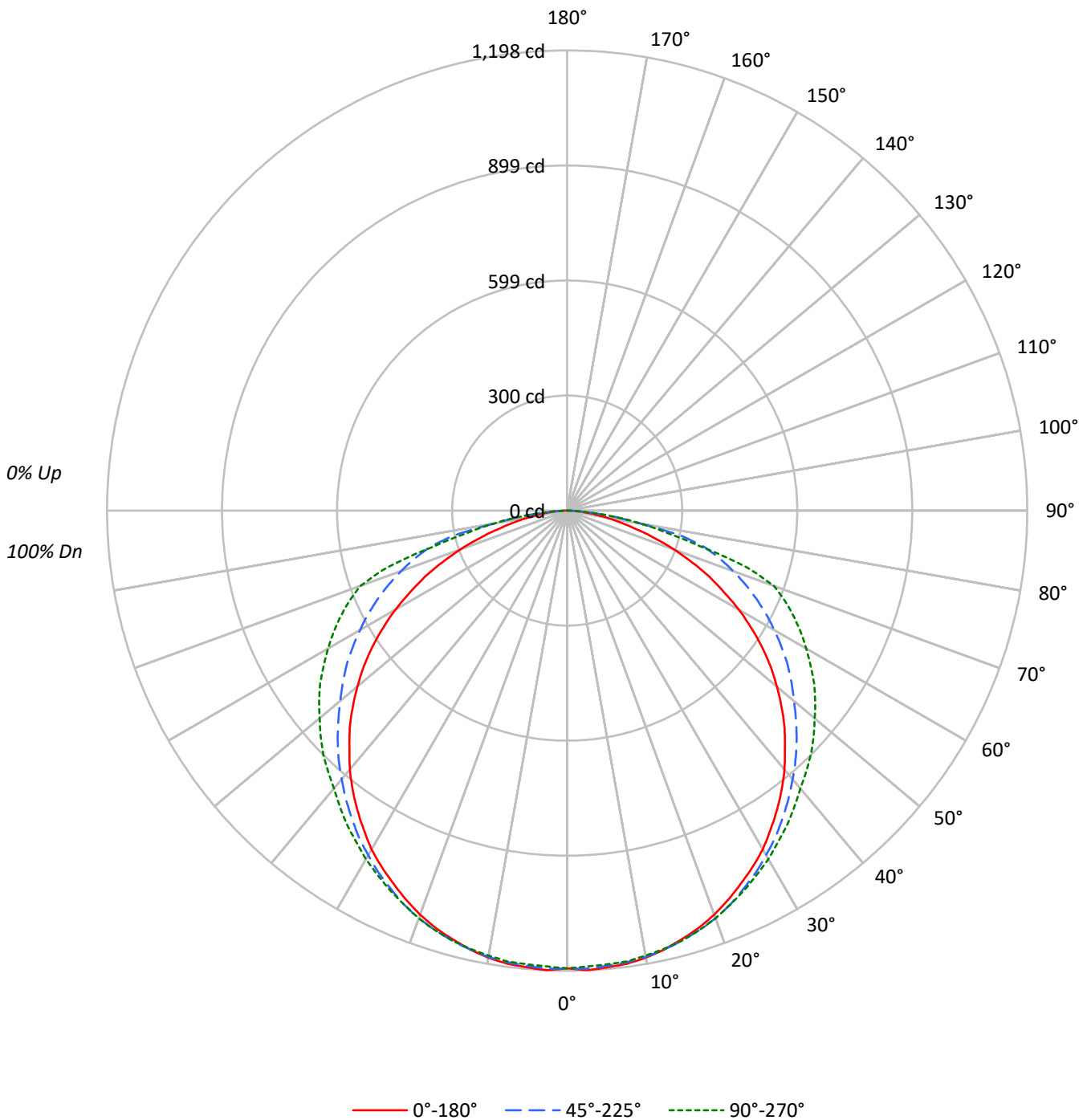
Input Watts (W): 43.989
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1604	1604	1604
5°	1612	1607	1602
10°	1615	1612	1607
15°	1609	1614	1614
20°	1603	1617	1617
25°	1590	1613	1619
30°	1582	1610	1628
35°	1564	1606	1641
40°	1546	1604	1659
45°	1523	1608	1708
50°	1492	1614	1761
55°	1453	1644	1841
60°	1389	1677	1934
65°	1302	1730	2071
70°	1164	1808	2252
75°	962	1933	1863
80°	785	1494	1509
85°	631	993	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.0
10°-20°	326.6	8.7
20°-30°	499.2	13.2
30°-40°	610.5	16.2
40°-50°	653.2	17.3
50°-60°	625.5	16.6
60°-70°	529.2	14.0
70°-80°	335.4	8.9
80°-90°	77.2	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°	939.0	24.9
0°-40°	1549.5	41.1
0°-60°	2828.3	75.0
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1194	1188	1190	1188	1186	114
15°	1155	1153	1159	1159	1159	326
25°	1071	1071	1087	1090	1090	494
35°	952	958	978	991	999	596
45°	800	814	845	880	898	617
55°	619	639	701	760	785	552
65°	409	448	543	617	650	403
75°	185	261	372	370	358	201
85°	41	62	64	58	60	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1197.6	1191.8	1193.7	1191.8	1187.9
5°	1193.7	1187.9	1189.8	1187.9	1185.9
7.5°	1189.8	1184.0	1185.9	1184.0	1184.0
10°	1182.0	1176.2	1180.1	1178.1	1176.2
12.5°	1170.3	1166.5	1170.3	1168.4	1168.4
15°	1154.8	1152.8	1158.7	1158.7	1158.7
17.5°	1139.2	1137.2	1145.0	1145.0	1145.0
20°	1119.7	1117.8	1129.5	1129.5	1129.5
22.5°	1096.3	1094.4	1110.0	1110.0	1110.0
25°	1071.0	1071.0	1086.6	1090.5	1090.5
27.5°	1045.7	1045.7	1063.2	1069.1	1069.1
30°	1018.5	1018.5	1036.0	1043.8	1047.7
32.5°	985.4	989.2	1008.7	1018.5	1022.3
35°	952.2	958.1	977.6	991.2	999.0
37.5°	917.2	923.0	946.4	962.0	971.7
40°	880.2	888.0	913.3	932.8	944.5
42.5°	839.3	851.0	880.2	905.5	921.1
45°	800.4	814.0	845.1	880.2	897.7
47.5°	757.5	773.1	808.1	852.9	870.5
50°	712.7	728.3	771.1	821.8	841.2
52.5°	667.9	685.5	736.1	790.6	814.0
55°	619.3	638.7	701.0	759.5	784.8
57.5°	568.6	592.0	662.1	724.4	751.7
60°	516.0	545.3	623.1	689.4	718.6
62.5°	461.5	496.6	584.2	654.3	685.5
65°	408.9	447.9	543.3	617.3	650.4
67.5°	352.5	401.2	502.4	582.3	613.4
70°	296.0	352.5	459.6	541.4	572.5
72.5°	239.5	307.7	416.7	490.7	490.7
75°	185.0	260.9	371.9	370.0	358.3
77.5°	140.2	218.1	305.7	260.9	262.9
80°	101.3	175.3	192.8	192.8	194.7
82.5°	68.2	134.4	124.6	122.7	126.6
85°	40.9	62.3	64.3	58.4	60.4
87.5°	19.5	21.4	17.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)