

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: P277091

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.5 lumens
Efficiency: N/A
Efficacy: 71.4 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

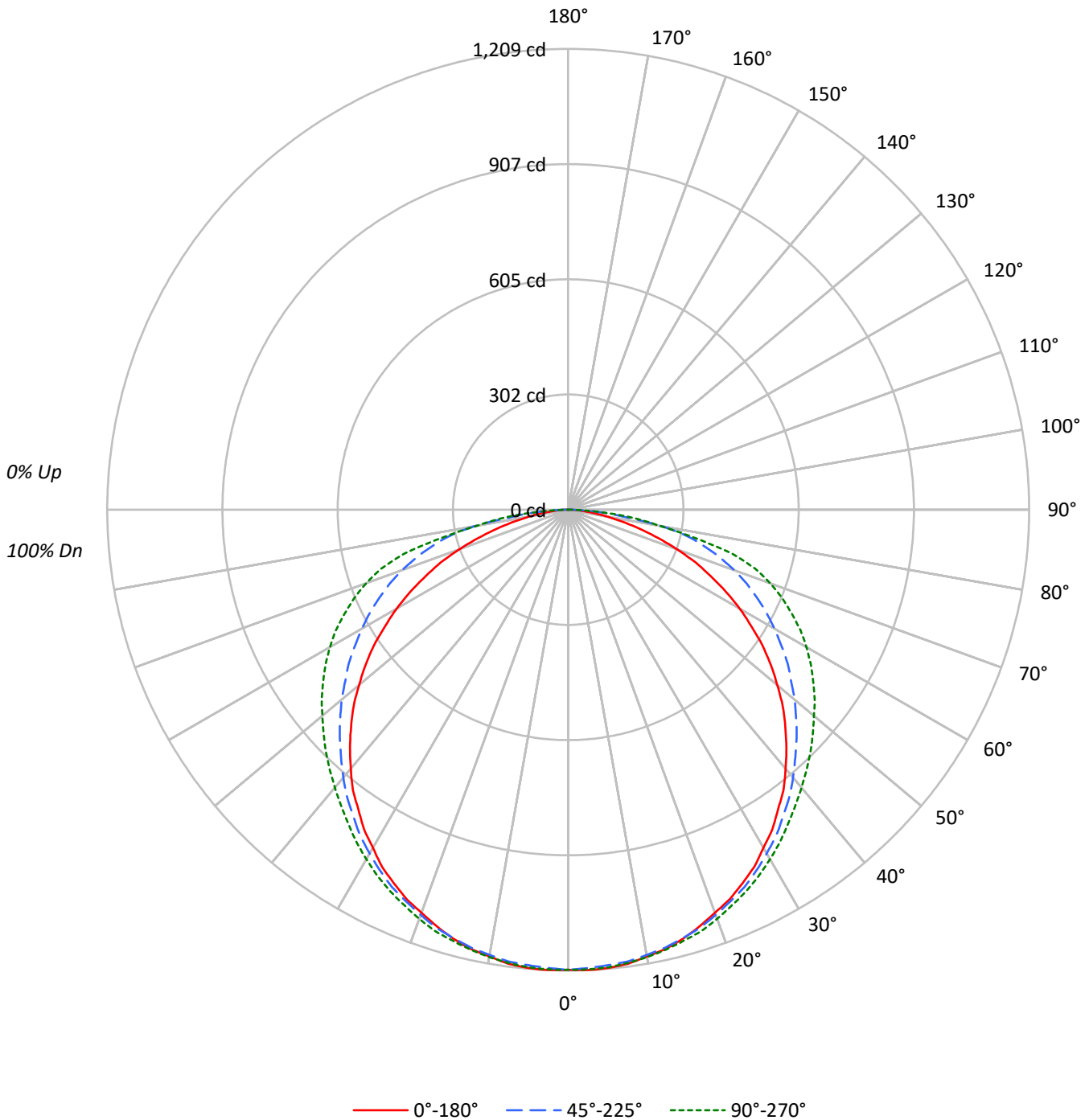
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1624	1624	1624
5°	1630	1620	1628
10°	1626	1621	1628
15°	1623	1620	1631
20°	1611	1619	1636
25°	1605	1623	1639
30°	1591	1618	1645
35°	1576	1614	1651
40°	1558	1612	1672
45°	1533	1612	1710
50°	1499	1622	1761
55°	1460	1648	1840
60°	1399	1681	1942
65°	1309	1740	2061
70°	1191	1820	2217
75°	1010	1920	2316
80°	797	1932	1874
85°	588	1470	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.0
10°-20°	329.5	8.6
20°-30°	503.9	13.1
30°-40°	616.1	16.0
40°-50°	656.6	17.1
50°-60°	627.8	16.4
60°-70°	531.8	13.9
70°-80°	357.4	9.3
80°-90°	100.8	2.6
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°	948.0	24.7
0°-40°	1564.0	40.7
0°-60°	2848.4	74.2
0°-90°	3838.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1207	1205	1200	1205	1205	115
15°	1165	1165	1163	1173	1171	329
25°	1081	1085	1093	1102	1104	498
35°	960	967	982	1002	1005	601
45°	805	819	847	883	899	621
55°	623	645	702	758	784	555
65°	411	453	546	619	647	408
75°	194	265	369	432	446	208
85°	38	78	95	103	107	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1209.0	1209.0	1203.3	1207.1	1207.1
5°	1207.1	1205.2	1199.5	1205.2	1205.2
7.5°	1201.4	1199.5	1195.7	1201.4	1199.5
10°	1190.0	1190.0	1186.1	1191.9	1191.9
12.5°	1180.4	1178.5	1176.6	1184.2	1182.3
15°	1165.2	1165.2	1163.3	1172.8	1170.9
17.5°	1146.2	1148.1	1150.0	1157.6	1159.5
20°	1125.2	1129.0	1130.9	1142.4	1142.4
22.5°	1106.2	1108.1	1111.9	1123.3	1123.3
25°	1081.4	1085.2	1092.9	1102.4	1104.3
27.5°	1056.7	1058.6	1068.1	1081.4	1083.3
30°	1024.3	1030.0	1041.4	1056.7	1058.6
32.5°	995.8	1001.5	1014.8	1030.0	1033.8
35°	959.6	967.2	982.4	1001.5	1005.3
37.5°	927.2	932.9	952.0	972.9	978.6
40°	887.2	898.7	917.7	942.4	952.0
42.5°	847.2	858.7	881.5	913.9	925.3
45°	805.4	818.7	847.2	883.4	898.7
47.5°	763.5	778.7	811.1	853.0	870.1
50°	715.9	734.9	774.9	822.5	841.5
52.5°	670.2	693.0	736.8	790.1	814.9
55°	622.6	645.4	702.5	757.8	784.4
57.5°	569.3	599.7	662.6	725.4	754.0
60°	519.8	548.3	624.5	693.0	721.6
62.5°	466.5	504.5	586.4	658.8	687.3
65°	411.2	453.1	546.4	618.8	647.3
67.5°	361.7	407.4	506.4	578.8	607.4
70°	302.7	359.8	462.7	535.0	563.6
72.5°	247.5	310.3	417.0	487.4	514.1
75°	194.2	264.6	369.4	432.2	445.5
77.5°	144.7	219.0	319.9	346.5	337.0
80°	102.8	175.2	249.4	236.1	241.8
82.5°	66.6	133.3	154.2	175.2	180.9
85°	38.1	78.1	95.2	102.8	106.6
87.5°	17.1	28.6	38.1	38.1	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)