

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: P277099

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277099
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: 24CZ2-75HE-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.8 lumens
Efficiency: N/A
Efficacy: 67.6 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

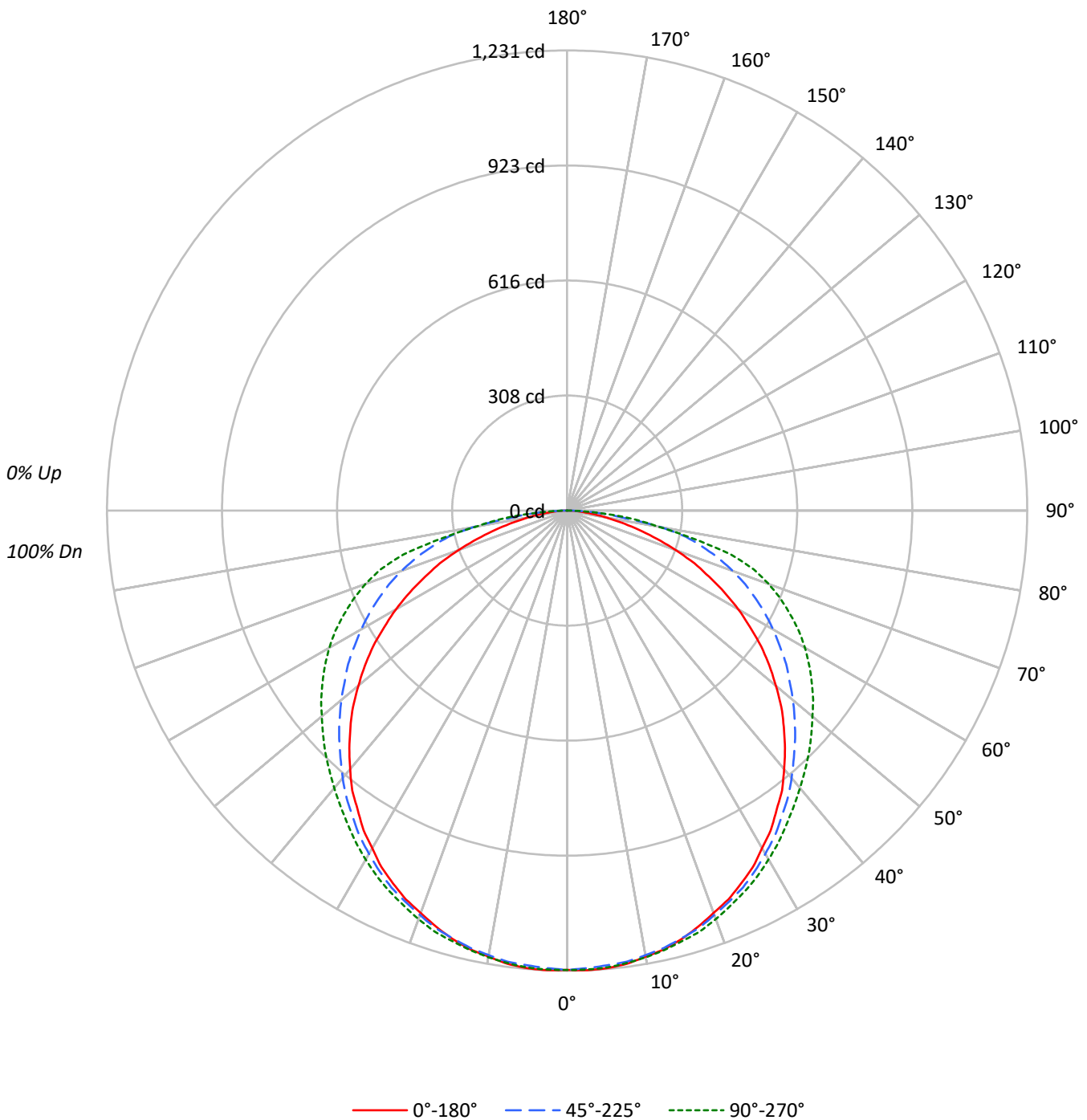
Input Watts (W): 57.846
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1653	1653	1653
5°	1660	1649	1657
10°	1655	1650	1658
15°	1652	1650	1661
20°	1640	1649	1665
25°	1635	1652	1669
30°	1620	1647	1674
35°	1605	1643	1681
40°	1587	1641	1702
45°	1560	1641	1741
50°	1526	1651	1793
55°	1487	1678	1873
60°	1424	1711	1977
65°	1333	1771	2098
70°	1212	1853	2257
75°	1028	1955	2358
80°	811	1967	1908
85°	599	1496	1675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.0
10°-20°	335.5	8.6
20°-30°	513.0	13.1
30°-40°	627.2	16.0
40°-50°	668.5	17.1
50°-60°	639.1	16.4
60°-70°	541.4	13.9
70°-80°	363.9	9.3
80°-90°	102.6	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°	965.1	24.7
0°-40°	1592.3	40.7
0°-60°	2899.9	74.2
0°-90°	3907.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1229	1227	1221	1227	1227	117
15°	1186	1186	1184	1194	1192	334
25°	1101	1105	1113	1122	1124	507
35°	977	985	1000	1020	1023	612
45°	820	834	863	899	915	632
55°	634	657	715	772	799	565
65°	419	461	556	630	659	416
75°	198	269	376	440	454	212
85°	39	80	97	105	108	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.9	1228.9	1228.9	1228.9	1228.9
2.5°	1230.8	1230.8	1225.0	1228.9	1228.9
5°	1228.9	1227.0	1221.1	1227.0	1227.0
7.5°	1223.1	1221.1	1217.3	1223.1	1221.1
10°	1211.5	1211.5	1207.6	1213.4	1213.4
12.5°	1201.8	1199.8	1197.9	1205.6	1203.7
15°	1186.3	1186.3	1184.3	1194.0	1192.1
17.5°	1166.9	1168.8	1170.7	1178.5	1180.4
20°	1145.5	1149.4	1151.4	1163.0	1163.0
22.5°	1126.2	1128.1	1132.0	1143.6	1143.6
25°	1101.0	1104.8	1112.6	1122.3	1124.2
27.5°	1075.8	1077.7	1087.4	1101.0	1102.9
30°	1042.8	1048.6	1060.3	1075.8	1077.7
32.5°	1013.7	1019.6	1033.1	1048.6	1052.5
35°	976.9	984.7	1000.2	1019.6	1023.4
37.5°	944.0	949.8	969.2	990.5	996.3
40°	903.3	914.9	934.3	959.5	969.2
42.5°	862.6	874.2	897.4	930.4	942.0
45°	819.9	833.5	862.6	899.4	914.9
47.5°	777.3	792.8	825.7	868.4	885.8
50°	728.8	748.2	788.9	837.4	856.7
52.5°	682.3	705.5	750.1	804.4	829.6
55°	633.8	657.1	715.2	771.5	798.6
57.5°	579.6	610.6	674.5	738.5	767.6
60°	529.2	558.2	635.8	705.5	734.6
62.5°	474.9	513.7	597.0	670.7	699.7
65°	418.7	461.3	556.3	630.0	659.0
67.5°	368.3	414.8	515.6	589.2	618.3
70°	308.2	366.3	471.0	544.7	573.7
72.5°	252.0	315.9	424.5	496.2	523.3
75°	197.7	269.4	376.0	440.0	453.6
77.5°	147.3	222.9	325.6	352.8	343.1
80°	104.7	178.3	253.9	240.4	246.2
82.5°	67.8	135.7	157.0	178.3	184.1
85°	38.8	79.5	96.9	104.7	108.5
87.5°	17.4	29.1	38.8	38.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)