

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: P277101

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277101
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-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4236.1 lumens
Efficiency: N/A
Efficacy: 71.7 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

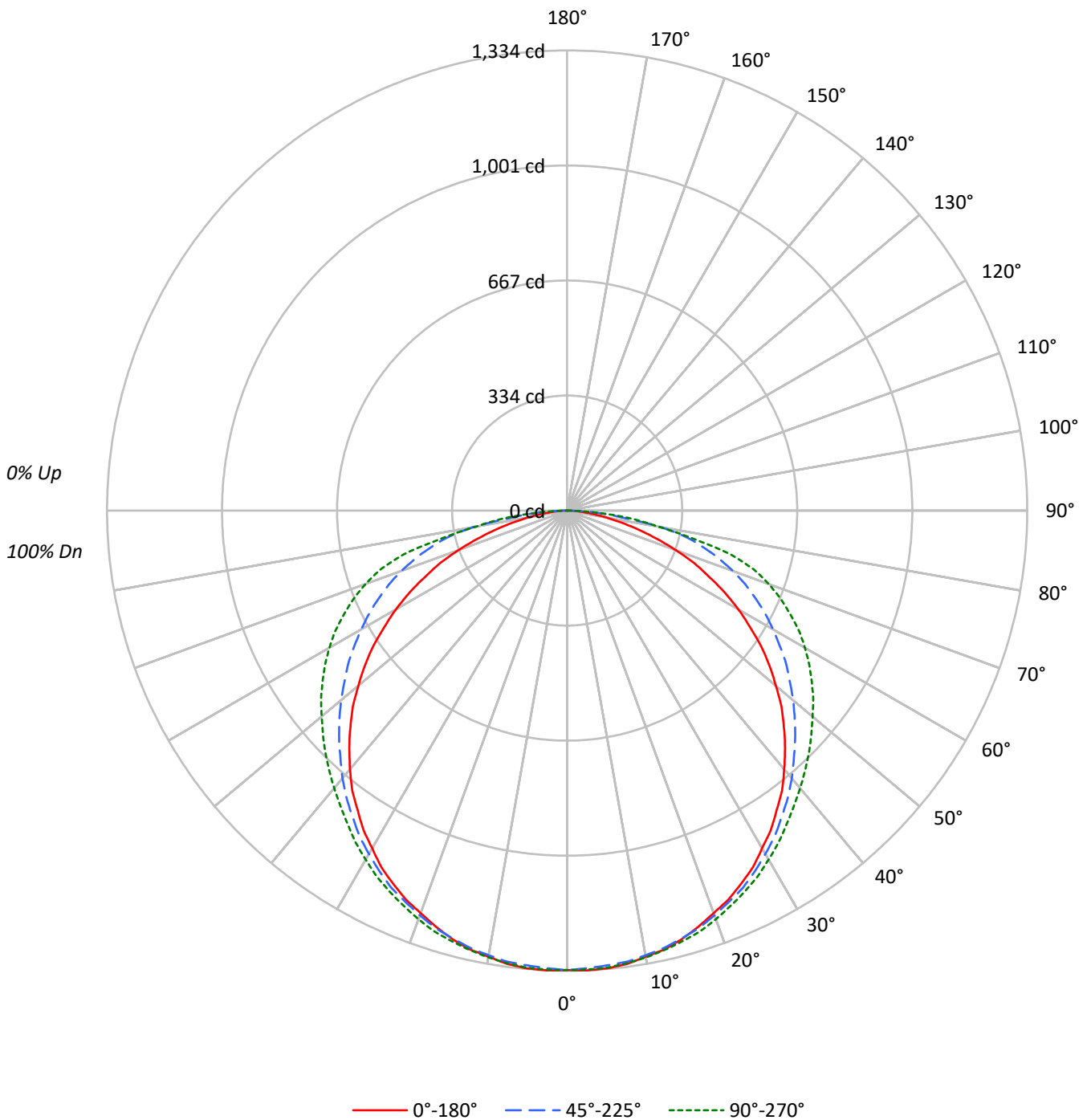
Input Watts (W): 59.055
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1792	1792	1792
5°	1799	1788	1796
10°	1794	1788	1797
15°	1791	1788	1800
20°	1778	1787	1805
25°	1772	1791	1809
30°	1756	1786	1815
35°	1739	1781	1822
40°	1720	1779	1845
45°	1691	1779	1887
50°	1654	1790	1944
55°	1612	1819	2031
60°	1544	1855	2143
65°	1445	1920	2274
70°	1314	2009	2447
75°	1114	2119	2556
80°	879	2133	2067
85°	648	1623	1817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.0
10°-20°	363.7	8.6
20°-30°	556.1	13.1
30°-40°	679.9	16.0
40°-50°	724.6	17.1
50°-60°	692.8	16.4
60°-70°	586.9	13.9
70°-80°	394.5	9.3
80°-90°	111.3	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°	1046.2	24.7
0°-40°	1726.1	40.7
0°-60°	3143.5	74.2
0°-90°	4236.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4236.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1332	1330	1324	1330	1330	127
15°	1286	1286	1284	1294	1292	363
25°	1194	1198	1206	1217	1219	550
35°	1059	1067	1084	1105	1109	663
45°	889	904	935	975	992	686
55°	687	712	775	836	866	612
65°	454	500	603	683	714	451
75°	214	292	408	477	492	229
85°	42	86	105	114	118	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.1	1332.1	1332.1	1332.1	1332.1
2.5°	1334.2	1334.2	1327.9	1332.1	1332.1
5°	1332.1	1330.0	1323.7	1330.0	1330.0
7.5°	1325.8	1323.7	1319.5	1325.8	1323.7
10°	1313.2	1313.2	1309.0	1315.3	1315.3
12.5°	1302.7	1300.6	1298.5	1306.9	1304.8
15°	1285.9	1285.9	1283.8	1294.3	1292.2
17.5°	1264.9	1267.0	1269.1	1277.5	1279.6
20°	1241.8	1246.0	1248.1	1260.7	1260.7
22.5°	1220.8	1222.9	1227.1	1239.7	1239.7
25°	1193.5	1197.7	1206.1	1216.6	1218.7
27.5°	1166.1	1168.2	1178.8	1193.5	1195.6
30°	1130.4	1136.7	1149.3	1166.1	1168.2
32.5°	1098.9	1105.2	1119.9	1136.7	1140.9
35°	1059.0	1067.4	1084.2	1105.2	1109.4
37.5°	1023.3	1029.6	1050.6	1073.7	1080.0
40°	979.1	991.7	1012.8	1040.1	1050.6
42.5°	935.0	947.6	972.8	1008.6	1021.2
45°	888.8	903.5	935.0	974.9	991.7
47.5°	842.6	859.4	895.1	941.3	960.2
50°	790.0	811.0	855.2	907.7	928.7
52.5°	739.6	764.8	813.2	872.0	899.3
55°	687.1	712.3	775.3	836.3	865.7
57.5°	628.2	661.9	731.2	800.5	832.1
60°	573.6	605.1	689.2	764.8	796.3
62.5°	514.8	556.8	647.2	727.0	758.5
65°	453.9	500.1	603.0	682.9	714.4
67.5°	399.2	449.6	558.9	638.8	670.3
70°	334.1	397.1	510.6	590.4	621.9
72.5°	273.2	342.5	460.2	537.9	567.3
75°	214.3	292.1	407.6	477.0	491.7
77.5°	159.7	241.6	353.0	382.4	371.9
80°	113.5	193.3	275.3	260.5	266.8
82.5°	73.5	147.1	170.2	193.3	199.6
85°	42.0	86.1	105.1	113.5	117.7
87.5°	18.9	31.5	42.0	42.0	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)