

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: P260639

Luminaire Tested: **24CZ-LD5-40-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3739.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

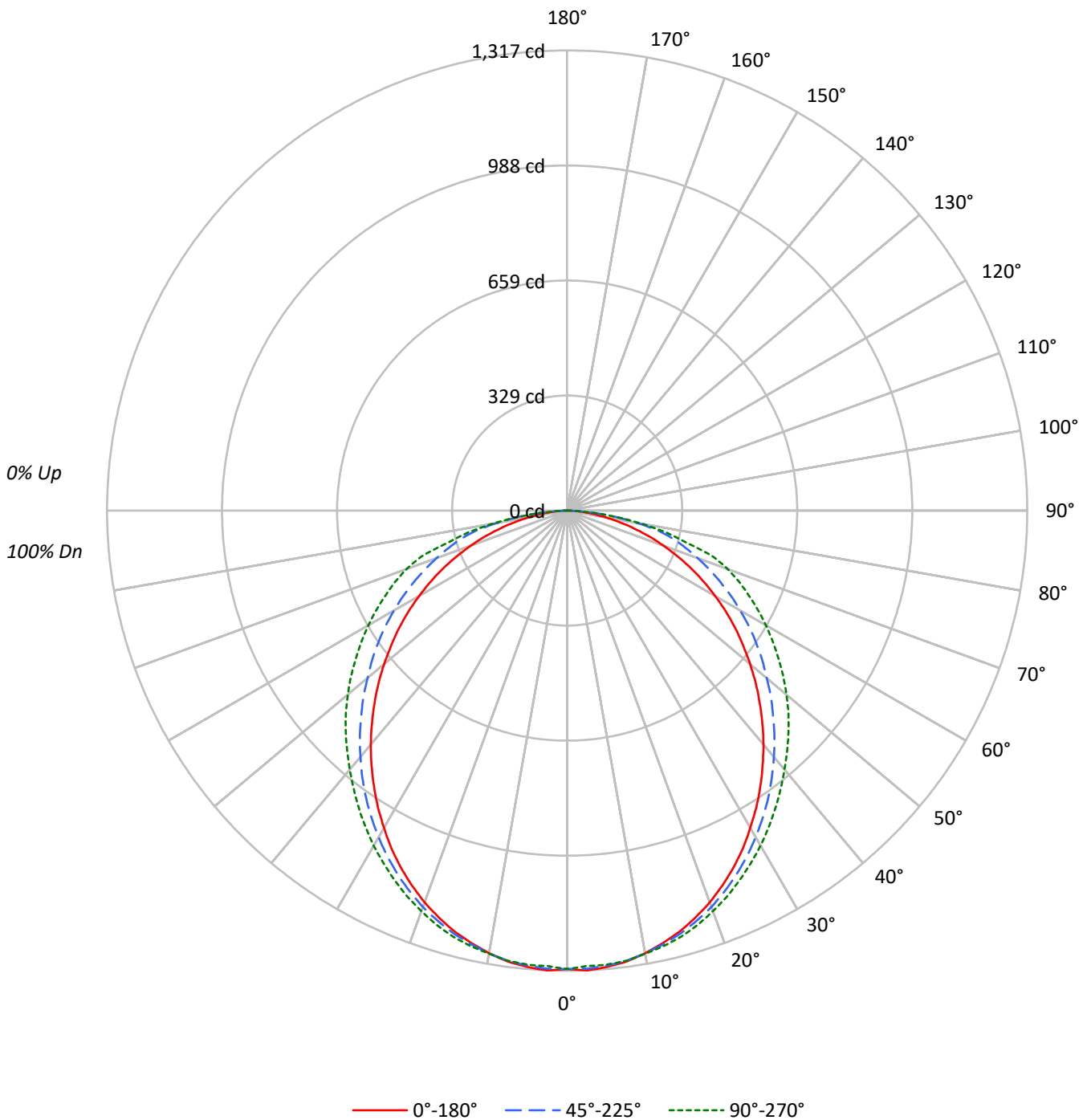
Input Watts (W): 29.007072
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																												
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																												
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57																												
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49																												
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																												
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																												
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32																												
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																												
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26																												
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1766	1766	1766
5°	1771	1765	1762
10°	1758	1758	1760
15°	1737	1746	1758
20°	1708	1729	1747
25°	1673	1705	1733
30°	1629	1677	1720
35°	1583	1649	1707
40°	1536	1617	1700
45°	1483	1586	1705
50°	1431	1560	1715
55°	1378	1550	1733
60°	1316	1540	1767
65°	1247	1541	1826
70°	1153	1566	1924
75°	1031	1637	1830
80°	863	1567	1677
85°	651	1206	1147



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.3
10°-20°	352.9	9.4
20°-30°	527.6	14.1
30°-40°	625.9	16.7
40°-50°	644.2	17.2
50°-60°	591.0	15.8
60°-70°	477.8	12.8
70°-80°	310.1	8.3
80°-90°	85.5	2.3
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°	1004.5	26.9
0°-40°	1630.4	43.6
0°-60°	2865.6	76.6
0°-90°	3739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1311	1302	1307	1306	1304	124
15°	1247	1242	1253	1258	1262	351
25°	1127	1128	1148	1159	1168	519
35°	964	972	1004	1025	1040	603
45°	780	792	833	873	896	602
55°	588	606	661	714	739	525
65°	392	415	484	548	574	387
75°	198	236	315	352	352	211
85°	42	72	78	76	74	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1317.3	1307.1	1312.2	1310.9	1304.5
5°	1310.9	1302.0	1307.1	1305.8	1304.5
7.5°	1302.0	1293.0	1299.4	1298.1	1299.4
10°	1286.6	1278.9	1286.6	1287.9	1287.9
12.5°	1267.4	1261.0	1271.2	1273.8	1276.4
15°	1246.9	1241.8	1253.3	1258.4	1262.3
17.5°	1221.3	1217.5	1231.5	1237.9	1243.1
20°	1193.1	1191.9	1207.2	1213.6	1220.0
22.5°	1161.1	1161.1	1179.1	1186.7	1195.7
25°	1126.6	1127.9	1148.3	1158.6	1167.5
27.5°	1089.4	1090.7	1115.0	1127.9	1138.1
30°	1048.5	1053.6	1079.2	1095.8	1107.4
32.5°	1007.5	1013.9	1042.1	1061.3	1074.1
35°	964.0	971.7	1003.7	1025.4	1039.5
37.5°	919.2	928.1	962.7	987.0	1003.7
40°	874.4	884.6	920.5	948.6	967.8
42.5°	827.0	838.5	878.2	911.5	932.0
45°	779.6	792.4	833.4	873.1	896.1
47.5°	732.3	747.6	791.2	834.7	859.0
50°	683.6	699.0	745.1	795.0	819.3
52.5°	635.0	652.9	704.1	755.3	779.6
55°	587.6	605.5	660.6	714.3	738.7
57.5°	539.0	556.9	617.1	673.4	697.7
60°	489.0	509.5	572.2	629.9	656.7
62.5°	440.4	462.2	528.7	590.2	615.8
65°	391.7	414.8	483.9	547.9	573.5
67.5°	341.8	368.7	440.4	505.7	532.6
70°	293.2	322.6	398.1	463.4	489.0
72.5°	245.8	277.8	355.9	422.5	437.8
75°	198.4	235.6	314.9	352.1	352.1
77.5°	153.6	194.6	268.8	282.9	290.6
80°	111.4	156.2	202.3	218.9	216.4
82.5°	74.3	119.1	144.7	144.7	140.8
85°	42.2	71.7	78.1	75.5	74.3
87.5°	17.9	26.9	24.3	19.2	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)