

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: P263612

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4075.9 lumens  
Efficiency: N/A  
Efficacy: 68.2 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

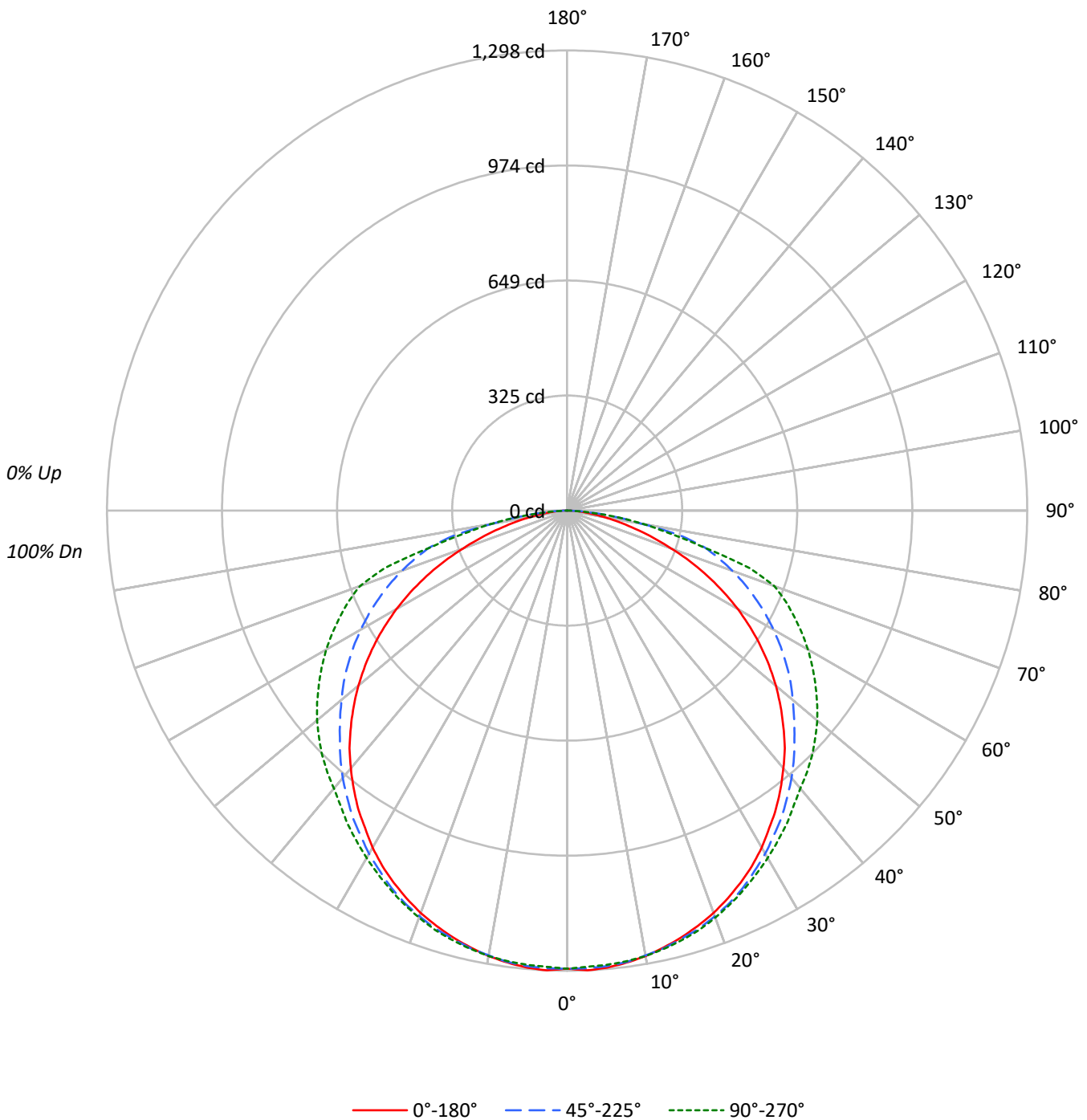
Input Watts (W): 59.747292  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27					27			
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1739	1739	1739
5°	1748	1742	1737
10°	1743	1741	1743
15°	1735	1741	1747
20°	1729	1744	1750
25°	1719	1742	1751
30°	1705	1736	1758
35°	1687	1733	1773
40°	1667	1730	1797
45°	1642	1726	1859
50°	1608	1739	1928
55°	1563	1770	2005
60°	1496	1809	2111
65°	1393	1865	2248
70°	1231	1950	2447
75°	1032	2086	2054
80°	824	1648	1710
85°	650	1115	1022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	3.0
10°-20°	352.7	8.7
20°-30°	538.7	13.2
30°-40°	658.6	16.2
40°-50°	705.0	17.3
50°-60°	676.2	16.6
60°-70°	571.0	14.0
70°-80°	364.9	9.0
80°-90°	86.3	2.1
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°	1014.0	24.9
0°-40°	1672.6	41.0
0°-60°	3053.7	74.9
0°-90°	4075.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4075.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1294	1286	1290	1288	1286	123
15°	1246	1242	1250	1254	1254	352
25°	1158	1156	1174	1178	1180	534
35°	1027	1035	1055	1069	1079	642
45°	863	877	907	949	977	665
55°	666	688	754	823	855	594
65°	437	480	586	668	706	431
75°	199	283	401	409	395	214
85°	42	70	72	70	66	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1292.1	1292.1	1292.1	1292.1	1292.1
2.5°	1298.1	1290.1	1292.1	1292.1	1288.1
5°	1294.1	1286.1	1290.1	1288.1	1286.1
7.5°	1286.1	1280.0	1284.1	1284.1	1282.1
10°	1276.0	1270.0	1274.0	1276.0	1276.0
12.5°	1262.0	1258.0	1264.0	1264.0	1266.0
15°	1245.9	1241.9	1250.0	1254.0	1254.0
17.5°	1227.9	1225.9	1235.9	1237.9	1239.9
20°	1207.8	1205.8	1217.9	1217.9	1221.9
22.5°	1183.7	1181.7	1197.8	1197.8	1201.8
25°	1157.7	1155.7	1173.7	1177.7	1179.7
27.5°	1129.6	1127.6	1145.6	1151.6	1155.7
30°	1097.5	1097.5	1117.5	1125.6	1131.6
32.5°	1061.4	1067.4	1085.4	1097.5	1105.5
35°	1027.2	1035.3	1055.3	1069.4	1079.4
37.5°	989.1	997.2	1019.2	1037.3	1049.3
40°	949.0	959.0	985.1	1005.2	1023.2
42.5°	908.9	918.9	947.0	977.1	1001.2
45°	862.7	876.8	906.9	949.0	977.1
47.5°	816.6	830.6	868.7	920.9	949.0
50°	768.4	784.5	830.6	890.8	920.9
52.5°	718.3	736.3	794.5	858.7	888.8
55°	666.1	688.2	754.4	822.6	854.7
57.5°	611.9	636.0	714.3	786.5	820.6
60°	555.8	585.9	672.1	748.4	784.5
62.5°	497.6	533.7	630.0	708.2	746.4
65°	437.4	479.5	585.9	668.1	706.2
67.5°	375.2	431.4	541.7	628.0	666.1
70°	313.0	379.2	495.6	583.8	622.0
72.5°	254.8	331.0	449.4	531.7	539.7
75°	198.6	282.9	401.3	409.3	395.2
77.5°	148.5	234.7	331.0	294.9	292.9
80°	106.3	188.6	212.7	218.7	220.7
82.5°	70.2	142.5	138.4	142.5	140.4
85°	42.1	70.2	72.2	70.2	66.2
87.5°	20.1	26.1	20.1	18.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)