

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: P263721

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263721  
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-LD5-70-RDP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5109.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

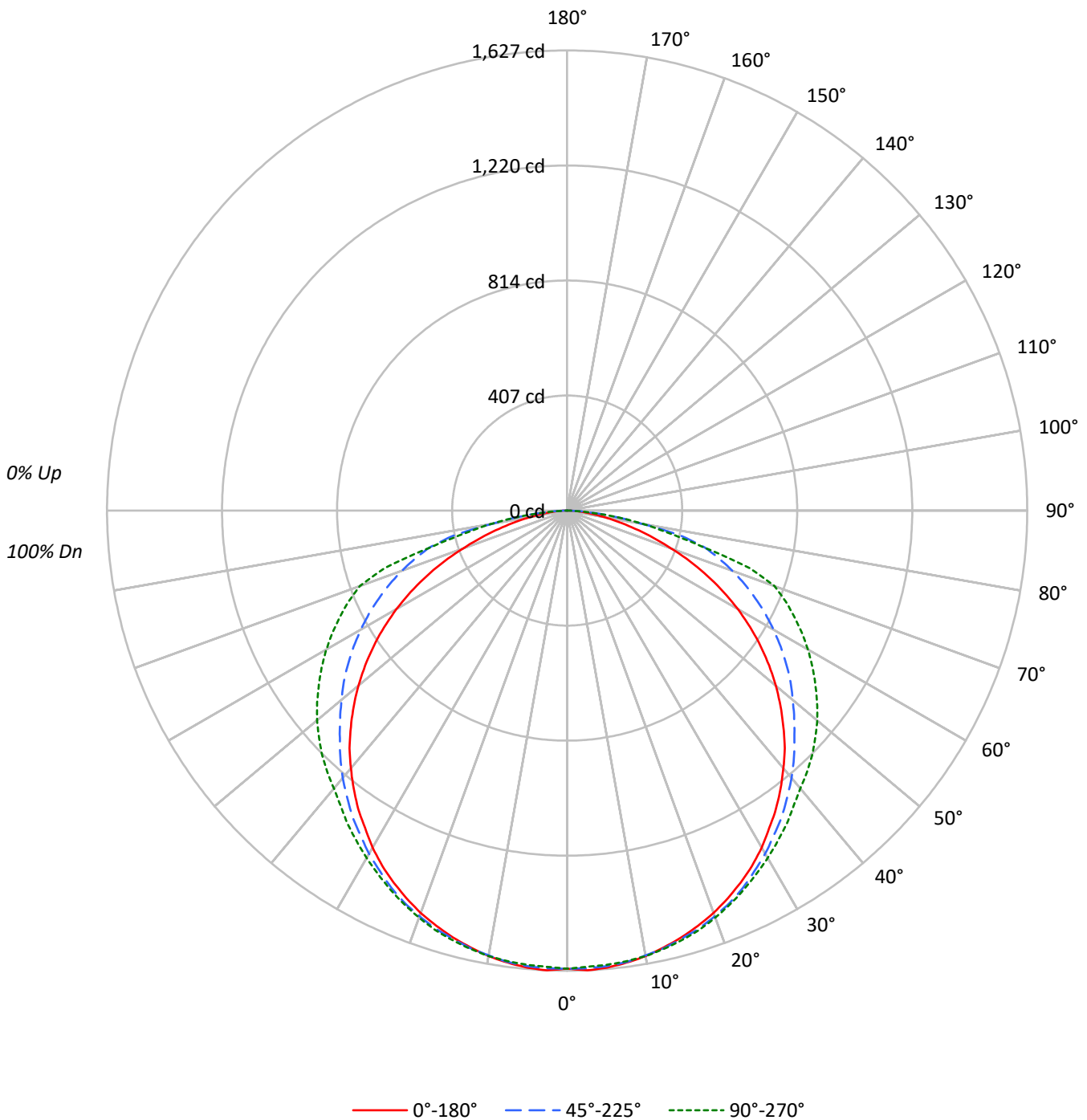
Input Watts (W): 55.149  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2179	2179	2179
5°	2191	2184	2177
10°	2185	2182	2185
15°	2176	2182	2189
20°	2168	2186	2193
25°	2154	2184	2195
30°	2137	2176	2204
35°	2115	2173	2222
40°	2089	2169	2253
45°	2058	2163	2331
50°	2016	2179	2416
55°	1958	2218	2513
60°	1875	2267	2646
65°	1745	2338	2818
70°	1543	2444	3067
75°	1294	2615	2575
80°	1033	2066	2143
85°	815	1397	1281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.6	3.0
10°-20°	442.1	8.7
20°-30°	675.3	13.2
30°-40°	825.6	16.2
40°-50°	883.7	17.3
50°-60°	847.6	16.6
60°-70°	715.7	14.0
70°-80°	457.4	9.0
80°-90°	108.2	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°	1271.0	24.9
0°-40°	2096.5	41.0
0°-60°	3827.8	74.9
0°-90°	5109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5109.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1622	1612	1617	1615	1612	154
15°	1562	1557	1567	1572	1572	441
25°	1451	1449	1471	1476	1479	669
35°	1288	1298	1323	1340	1353	805
45°	1081	1099	1137	1190	1225	834
55°	835	863	946	1031	1071	745
65°	548	601	734	838	885	541
75°	249	355	503	513	495	268
85°	53	88	90	88	83	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1619.6	1619.6	1619.6	1619.6	1619.6
2.5°	1627.1	1617.1	1619.6	1619.6	1614.6
5°	1622.1	1612.1	1617.1	1614.6	1612.1
7.5°	1612.1	1604.5	1609.5	1609.5	1607.0
10°	1599.5	1591.9	1597.0	1599.5	1599.5
12.5°	1581.9	1576.8	1584.4	1584.4	1586.9
15°	1561.8	1556.7	1566.8	1571.8	1571.8
17.5°	1539.1	1536.6	1549.2	1551.7	1554.2
20°	1514.0	1511.5	1526.5	1526.5	1531.6
22.5°	1483.8	1481.3	1501.4	1501.4	1506.4
25°	1451.1	1448.6	1471.2	1476.2	1478.8
27.5°	1415.9	1413.4	1436.0	1443.6	1448.6
30°	1375.7	1375.7	1400.8	1410.9	1418.4
32.5°	1330.4	1337.9	1360.6	1375.7	1385.7
35°	1287.6	1297.7	1322.8	1340.4	1353.0
37.5°	1239.8	1249.9	1277.6	1300.2	1315.3
40°	1189.5	1202.1	1234.8	1260.0	1282.6
42.5°	1139.2	1151.8	1187.0	1224.8	1254.9
45°	1081.4	1099.0	1136.7	1189.5	1224.8
47.5°	1023.6	1041.2	1089.0	1154.3	1189.5
50°	963.2	983.3	1041.2	1116.6	1154.3
52.5°	900.3	923.0	995.9	1076.4	1114.1
55°	834.9	862.6	945.6	1031.1	1071.3
57.5°	767.0	797.2	895.3	985.8	1028.6
60°	696.6	734.4	842.5	938.1	983.3
62.5°	623.7	669.0	789.7	887.8	935.5
65°	548.2	601.1	734.4	837.5	885.2
67.5°	470.3	540.7	679.0	787.2	834.9
70°	392.3	475.3	621.2	731.8	779.6
72.5°	319.4	415.0	563.3	666.4	676.5
75°	249.0	354.6	503.0	513.0	495.4
77.5°	186.1	294.2	415.0	369.7	367.2
80°	133.3	236.4	266.6	274.1	276.6
82.5°	88.0	178.6	173.5	178.6	176.0
85°	52.8	88.0	90.5	88.0	83.0
87.5°	25.1	32.7	25.1	22.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)