

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: P276971

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276971  
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-L82765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5012.9 lumens  
Efficiency: N/A  
Efficacy: 82.2 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

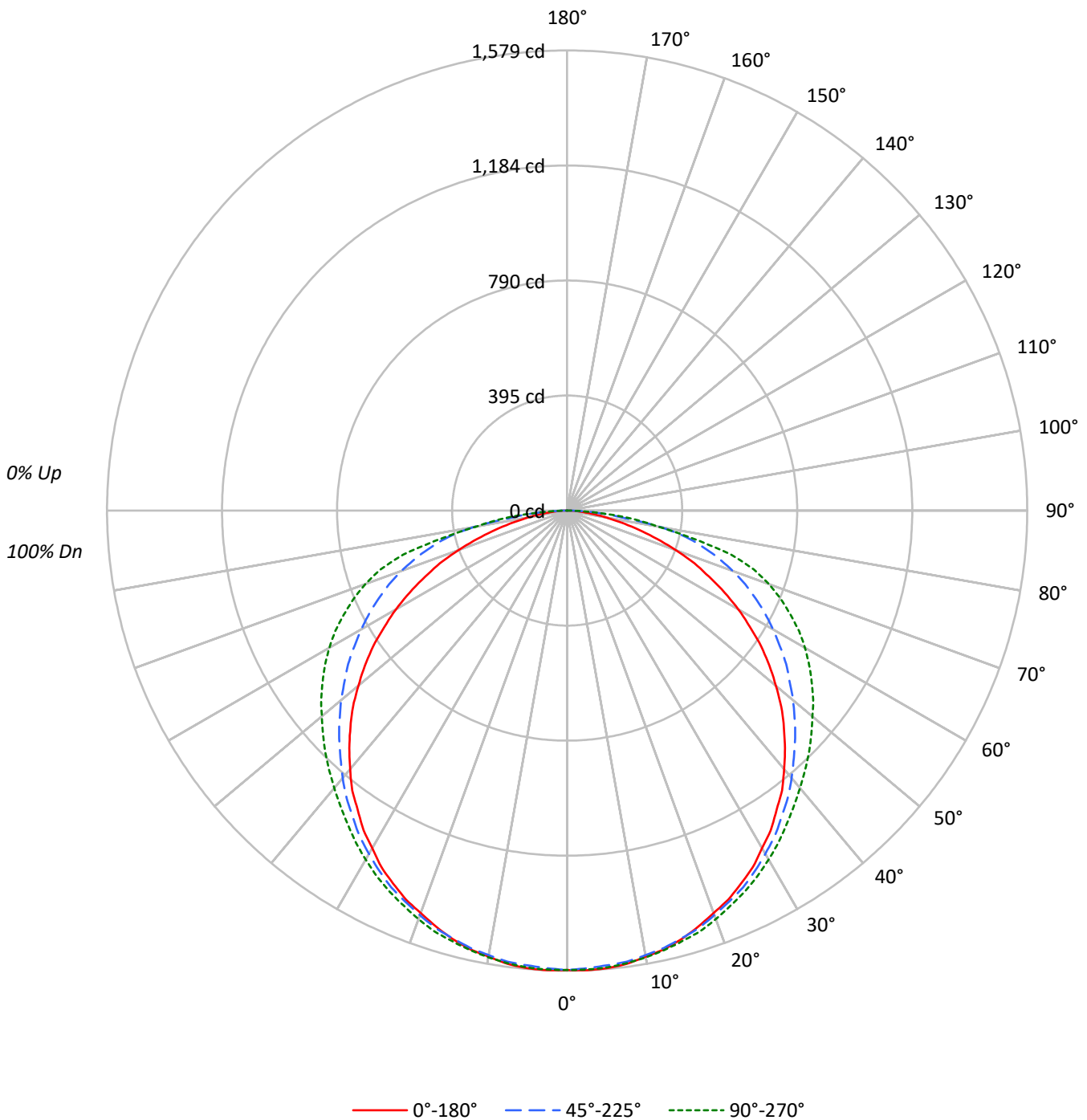
Input Watts (W): 61.008  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	68	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°	2121	2121	2121
5°	2129	2116	2126
10°	2123	2116	2127
15°	2120	2116	2130
20°	2104	2115	2136
25°	2097	2119	2141
30°	2078	2113	2148
35°	2058	2107	2156
40°	2035	2105	2184
45°	2001	2105	2233
50°	1957	2118	2300
55°	1907	2152	2403
60°	1827	2195	2536
65°	1710	2272	2691
70°	1555	2377	2895
75°	1318	2508	3025
80°	1041	2524	2447
85°	767	1919	2149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.5	3.0
10°-20°	430.4	8.6
20°-30°	658.1	13.1
30°-40°	804.6	16.0
40°-50°	857.5	17.1
50°-60°	819.9	16.4
60°-70°	694.5	13.9
70°-80°	466.8	9.3
80°-90°	131.7	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°	1238.0	24.7
0°-40°	2042.6	40.7
0°-60°	3720.0	74.2
0°-90°	5012.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5012.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1576	1574	1566	1574	1574	150
15°	1522	1522	1519	1532	1529	429
25°	1412	1417	1427	1440	1442	651
35°	1253	1263	1283	1308	1313	785
45°	1052	1069	1106	1154	1174	811
55°	813	843	918	990	1024	724
65°	537	592	714	808	845	533
75°	254	346	482	564	582	272
85°	50	102	124	134	139	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1576.4	1576.4	1576.4	1576.4	1576.4
2.5°	1578.9	1578.9	1571.5	1576.4	1576.4
5°	1576.4	1573.9	1566.5	1573.9	1573.9
7.5°	1569.0	1566.5	1561.5	1569.0	1566.5
10°	1554.1	1554.1	1549.1	1556.5	1556.5
12.5°	1541.6	1539.1	1536.7	1546.6	1544.1
15°	1521.7	1521.7	1519.2	1531.7	1529.2
17.5°	1496.9	1499.4	1501.8	1511.8	1514.3
20°	1469.5	1474.5	1477.0	1491.9	1491.9
22.5°	1444.7	1447.1	1452.1	1467.0	1467.0
25°	1412.3	1417.3	1427.2	1439.7	1442.2
27.5°	1380.0	1382.5	1394.9	1412.3	1414.8
30°	1337.7	1345.2	1360.1	1380.0	1382.5
32.5°	1300.4	1307.9	1325.3	1345.2	1350.2
35°	1253.2	1263.1	1283.0	1307.9	1312.9
37.5°	1210.9	1218.4	1243.2	1270.6	1278.1
40°	1158.7	1173.6	1198.5	1230.8	1243.2
42.5°	1106.5	1121.4	1151.2	1193.5	1208.4
45°	1051.8	1069.2	1106.5	1153.7	1173.6
47.5°	997.1	1017.0	1059.2	1113.9	1136.3
50°	934.9	959.8	1012.0	1074.2	1099.0
52.5°	875.2	905.1	962.3	1031.9	1064.2
55°	813.1	842.9	917.5	989.6	1024.4
57.5°	743.5	783.2	865.3	947.4	984.7
60°	678.8	716.1	815.6	905.1	942.4
62.5°	609.2	658.9	765.8	860.3	897.6
65°	537.1	591.8	713.6	808.1	845.4
67.5°	472.4	532.1	661.4	755.9	793.2
70°	395.4	469.9	604.2	698.7	736.0
72.5°	323.2	405.3	544.5	636.5	671.4
75°	253.6	345.6	482.4	564.4	581.8
77.5°	189.0	285.9	417.7	452.5	440.1
80°	134.3	228.8	325.7	308.3	315.8
82.5°	87.0	174.1	201.4	228.8	236.2
85°	49.7	101.9	124.3	134.3	139.2
87.5°	22.4	37.3	49.7	49.7	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)