

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: P276780

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276780
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-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5084.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

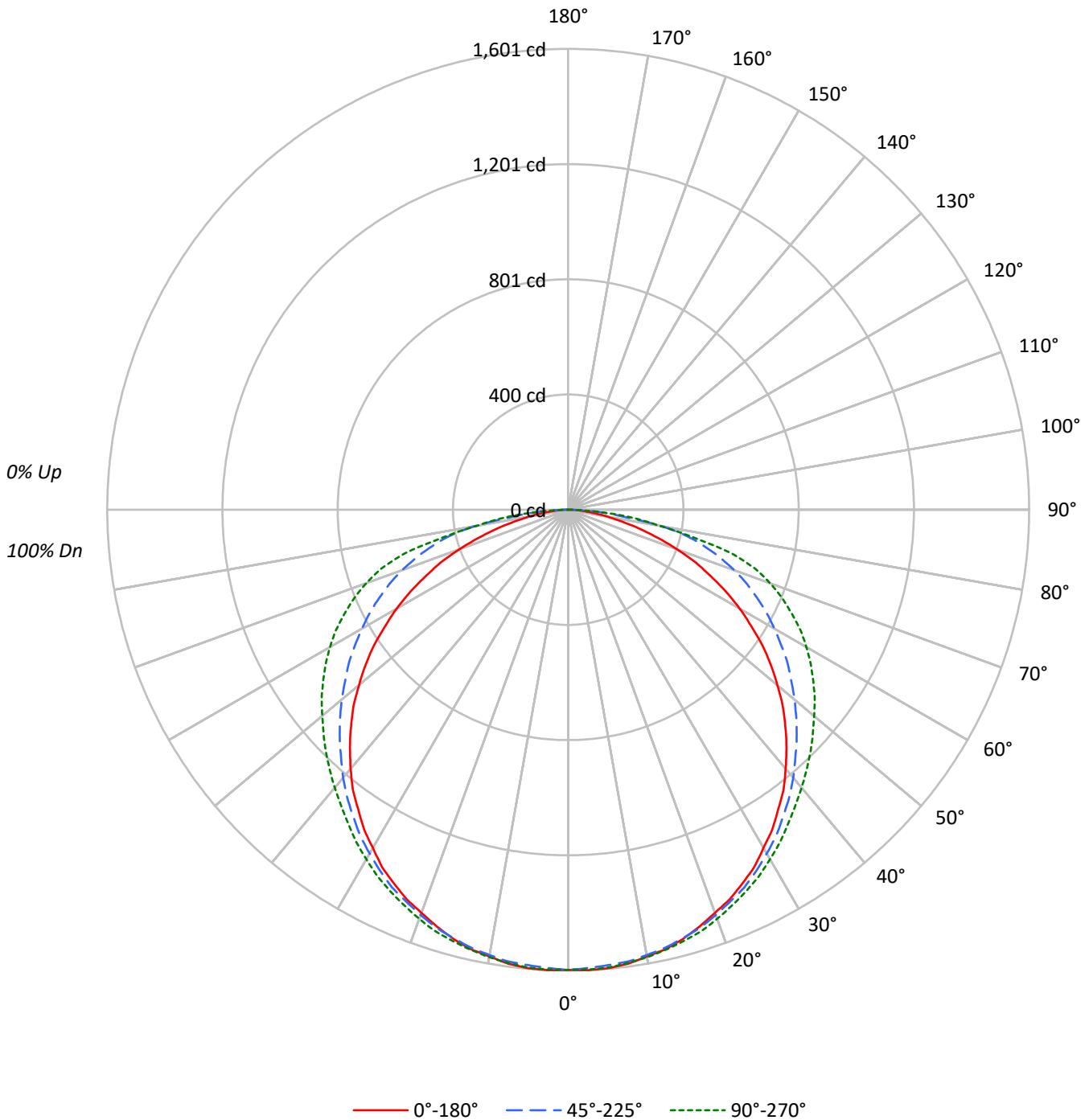
Input Watts (W): 61.265796
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2151	2151	2151
5°	2159	2146	2156
10°	2153	2146	2157
15°	2150	2146	2160
20°	2134	2145	2166
25°	2126	2149	2171
30°	2108	2143	2178
35°	2088	2137	2187
40°	2064	2135	2215
45°	2030	2135	2265
50°	1985	2148	2333
55°	1934	2183	2437
60°	1852	2226	2572
65°	1734	2304	2730
70°	1578	2411	2936
75°	1337	2543	3068
80°	1055	2559	2482
85°	778	1947	2180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.0
10°-20°	436.5	8.6
20°-30°	667.5	13.1
30°-40°	816.0	16.0
40°-50°	869.7	17.1
50°-60°	831.5	16.4
60°-70°	704.4	13.9
70°-80°	473.4	9.3
80°-90°	133.5	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°	1255.6	24.7
0°-40°	2071.6	40.7
0°-60°	3772.7	74.2
0°-90°	5084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1599	1596	1589	1596	1596	152
15°	1543	1543	1541	1553	1551	435
25°	1432	1437	1448	1460	1463	660
35°	1271	1281	1301	1326	1332	796
45°	1067	1084	1122	1170	1190	823
55°	825	855	930	1004	1039	734
65°	545	600	724	820	857	541
75°	257	350	489	572	590	275
85°	50	103	126	136	141	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1601.3	1601.3	1593.7	1598.8	1598.8
5°	1598.8	1596.3	1588.7	1596.3	1596.3
7.5°	1591.2	1588.7	1583.6	1591.2	1588.7
10°	1576.1	1576.1	1571.0	1578.6	1578.6
12.5°	1563.5	1560.9	1558.4	1568.5	1566.0
15°	1543.3	1543.3	1540.8	1553.4	1550.9
17.5°	1518.1	1520.6	1523.1	1533.2	1535.7
20°	1490.3	1495.4	1497.9	1513.0	1513.0
22.5°	1465.1	1467.6	1472.7	1487.8	1487.8
25°	1432.3	1437.4	1447.5	1460.1	1462.6
27.5°	1399.6	1402.1	1414.7	1432.3	1434.9
30°	1356.7	1364.3	1379.4	1399.6	1402.1
32.5°	1318.9	1326.4	1344.1	1364.3	1369.3
35°	1270.9	1281.0	1301.2	1326.4	1331.5
37.5°	1228.1	1235.6	1260.9	1288.6	1296.2
40°	1175.1	1190.3	1215.5	1248.3	1260.9
42.5°	1122.2	1137.3	1167.6	1210.4	1225.6
45°	1066.7	1084.3	1122.2	1170.1	1190.3
47.5°	1011.2	1031.4	1074.3	1129.7	1152.4
50°	948.2	973.4	1026.3	1089.4	1114.6
52.5°	887.6	917.9	975.9	1046.5	1079.3
55°	824.6	854.9	930.5	1003.6	1039.0
57.5°	754.0	794.3	877.6	960.8	998.6
60°	688.4	726.3	827.1	917.9	955.7
62.5°	617.8	668.3	776.7	872.5	910.3
65°	544.7	600.2	723.7	819.6	857.4
67.5°	479.1	539.6	670.8	766.6	804.4
70°	401.0	476.6	612.8	708.6	746.4
72.5°	327.8	411.0	552.3	645.6	680.9
75°	257.2	350.5	489.2	572.4	590.1
77.5°	191.7	290.0	423.6	459.0	446.3
80°	136.2	232.0	330.3	312.7	320.3
82.5°	88.3	176.5	204.3	232.0	239.6
85°	50.4	103.4	126.1	136.2	141.2
87.5°	22.7	37.8	50.4	50.4	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)