

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: P276779

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276779
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-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5036.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

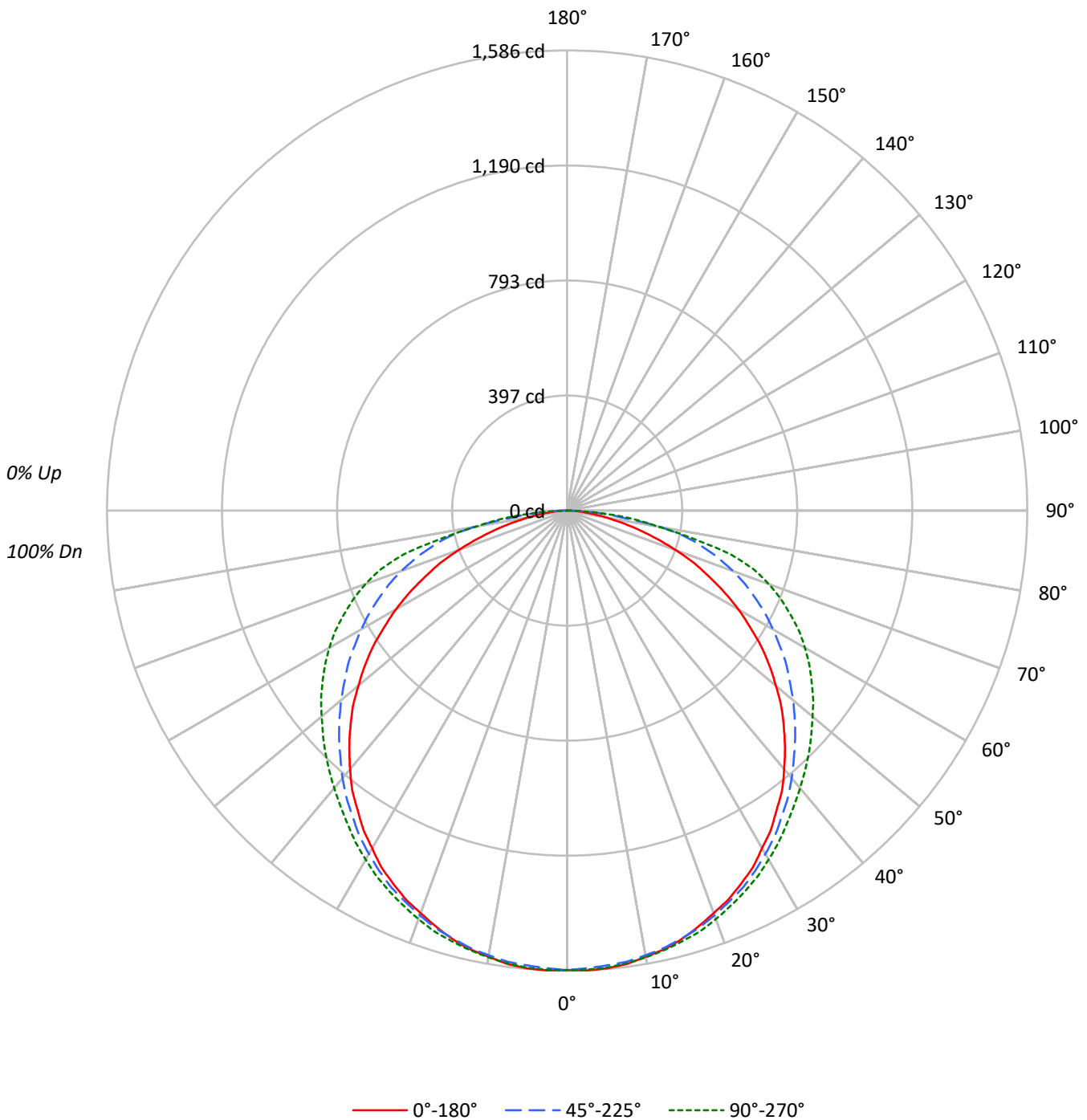
Input Watts (W): 59.747292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	67	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°	2131	2131	2131
5°	2139	2125	2136
10°	2133	2126	2136
15°	2129	2126	2140
20°	2114	2125	2146
25°	2106	2129	2151
30°	2088	2123	2158
35°	2068	2117	2166
40°	2044	2115	2194
45°	2011	2115	2243
50°	1966	2128	2311
55°	1916	2162	2414
60°	1835	2205	2548
65°	1718	2282	2704
70°	1563	2388	2909
75°	1325	2519	3039
80°	1045	2535	2458
85°	772	1928	2160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.0
10°-20°	432.3	8.6
20°-30°	661.2	13.1
30°-40°	808.3	16.0
40°-50°	861.4	17.1
50°-60°	823.6	16.4
60°-70°	697.7	13.9
70°-80°	468.9	9.3
80°-90°	132.3	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°	1243.7	24.7
0°-40°	2052.0	40.7
0°-60°	3737.1	74.2
0°-90°	5036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1581	1574	1581	1581	150
15°	1529	1529	1526	1539	1536	431
25°	1419	1424	1434	1446	1449	654
35°	1259	1269	1289	1314	1319	789
45°	1057	1074	1112	1159	1179	815
55°	817	847	922	994	1029	728
65°	540	594	717	812	849	536
75°	255	347	485	567	584	273
85°	50	102	125	135	140	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.7	1583.7	1583.7	1583.7	1583.7
2.5°	1586.2	1586.2	1578.7	1583.7	1583.7
5°	1583.7	1581.2	1573.7	1581.2	1581.2
7.5°	1576.2	1573.7	1568.7	1576.2	1573.7
10°	1561.2	1561.2	1556.2	1563.7	1563.7
12.5°	1548.7	1546.2	1543.7	1553.7	1551.2
15°	1528.7	1528.7	1526.2	1538.7	1536.2
17.5°	1503.7	1506.2	1508.7	1518.7	1521.2
20°	1476.3	1481.3	1483.8	1498.7	1498.7
22.5°	1451.3	1453.8	1458.8	1473.8	1473.8
25°	1418.8	1423.8	1433.8	1446.3	1448.8
27.5°	1386.3	1388.8	1401.3	1418.8	1421.3
30°	1343.9	1351.4	1366.4	1386.3	1388.8
32.5°	1306.4	1313.9	1331.4	1351.4	1356.4
35°	1258.9	1268.9	1288.9	1313.9	1318.9
37.5°	1216.5	1224.0	1249.0	1276.4	1283.9
40°	1164.0	1179.0	1204.0	1236.5	1249.0
42.5°	1111.6	1126.6	1156.5	1199.0	1214.0
45°	1056.6	1074.1	1111.6	1159.0	1179.0
47.5°	1001.7	1021.6	1064.1	1119.1	1141.5
50°	939.2	964.2	1016.7	1079.1	1104.1
52.5°	879.3	909.2	966.7	1036.6	1069.1
55°	816.8	846.8	921.7	994.2	1029.1
57.5°	746.9	786.8	869.3	951.7	989.2
60°	681.9	719.4	819.3	909.2	946.7
62.5°	612.0	661.9	769.4	864.3	901.7
65°	539.5	594.5	716.9	811.8	849.3
67.5°	474.6	534.6	664.4	759.4	796.8
70°	397.2	472.1	607.0	701.9	739.4
72.5°	324.7	407.2	547.0	639.5	674.4
75°	254.8	347.2	484.6	567.0	584.5
77.5°	189.8	287.3	419.6	454.6	442.1
80°	134.9	229.8	327.2	309.7	317.2
82.5°	87.4	174.9	202.3	229.8	237.3
85°	50.0	102.4	124.9	134.9	139.9
87.5°	22.5	37.5	50.0	50.0	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)