

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: P275913

Luminaire Tested: **24CZ2-50HE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4755.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

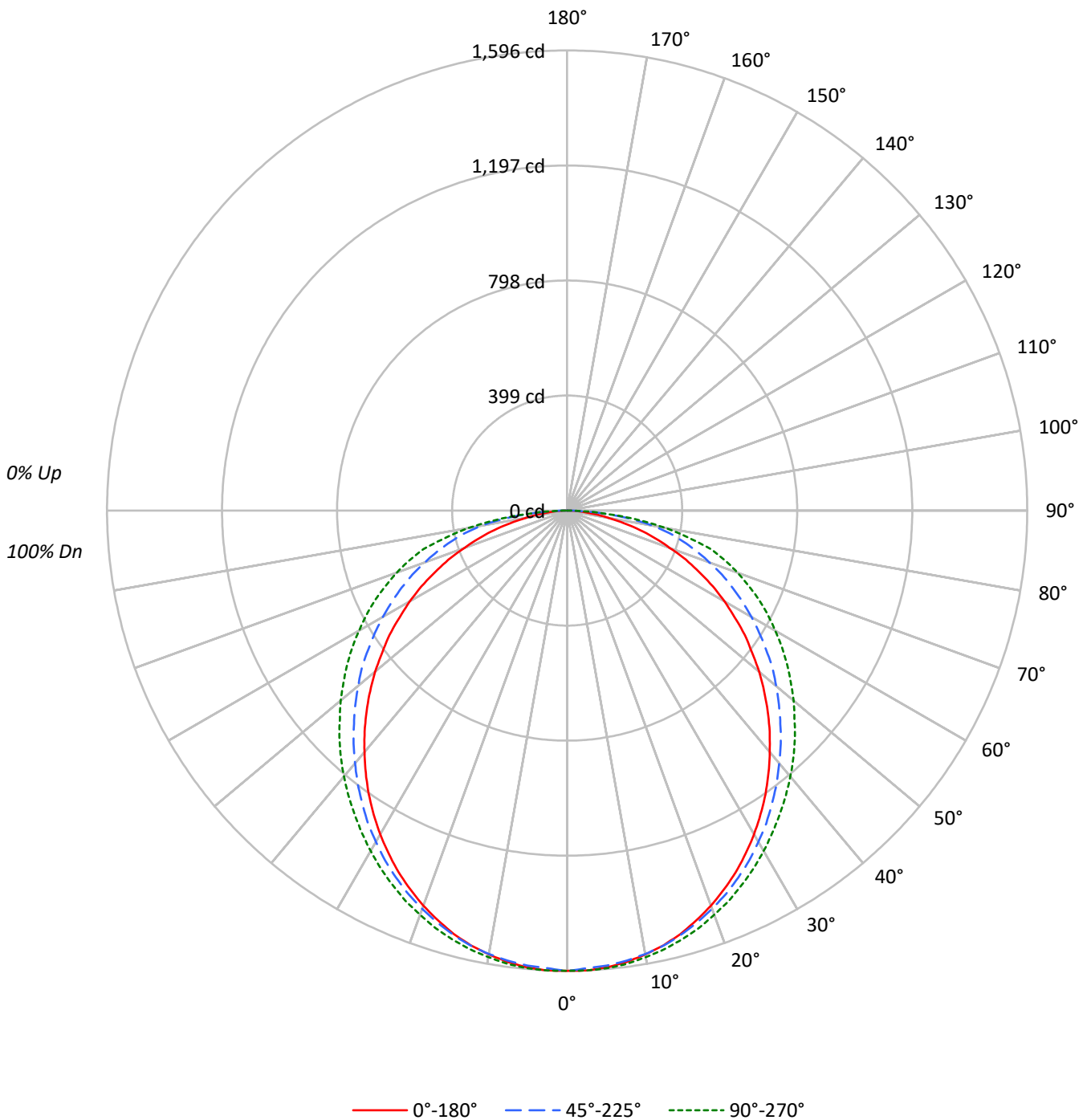
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2148	2148	2148
5°	2148	2139	2152
10°	2136	2134	2149
15°	2118	2122	2144
20°	2088	2104	2136
25°	2054	2085	2127
30°	2014	2061	2118
35°	1971	2036	2111
40°	1920	2010	2116
45°	1872	1990	2126
50°	1820	1980	2146
55°	1765	1977	2185
60°	1695	1986	2242
65°	1607	2016	2339
70°	1492	2067	2472
75°	1361	2170	2681
80°	1119	2336	2681
85°	857	2157	2303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	3.2
10°-20°	431.1	9.1
20°-30°	648.7	13.6
30°-40°	777.4	16.3
40°-50°	810.1	17.0
50°-60°	753.7	15.9
60°-70°	620.8	13.1
70°-80°	422.8	8.9
80°-90°	139.6	2.9
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°	1230.7	25.9
0°-40°	2008.1	42.2
0°-60°	3571.9	75.1
0°-90°	4755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1590	1590	1584	1592	1593	151
15°	1520	1522	1524	1538	1539	428
25°	1384	1390	1404	1428	1433	637
35°	1200	1214	1239	1273	1285	750
45°	984	1004	1046	1098	1117	759
55°	752	778	843	909	932	670
65°	505	548	633	708	735	501
75°	262	321	417	492	516	276
85°	56	108	140	149	149	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.5	1596.5	1596.5	1596.5	1596.5
2.5°	1596.5	1596.5	1588.5	1596.5	1596.5
5°	1590.1	1590.1	1583.8	1591.7	1593.3
7.5°	1579.0	1580.6	1574.3	1583.8	1585.4
10°	1563.1	1564.7	1561.6	1571.1	1572.7
12.5°	1544.1	1545.7	1545.7	1556.8	1558.4
15°	1520.3	1521.9	1523.5	1537.8	1539.3
17.5°	1490.1	1494.9	1498.1	1515.5	1518.7
20°	1458.4	1463.2	1469.5	1488.6	1491.7
22.5°	1421.9	1428.3	1439.4	1460.0	1464.8
25°	1383.8	1390.2	1404.5	1428.3	1433.0
27.5°	1341.0	1350.5	1368.0	1393.3	1399.7
30°	1296.5	1306.1	1326.7	1353.7	1363.2
32.5°	1248.9	1261.6	1285.4	1315.6	1325.1
35°	1199.7	1214.0	1239.4	1272.7	1285.4
37.5°	1147.4	1163.2	1193.4	1229.9	1245.8
40°	1093.4	1112.5	1144.2	1187.0	1204.5
42.5°	1039.5	1056.9	1096.6	1142.6	1161.6
45°	983.9	1004.5	1045.8	1098.2	1117.2
47.5°	926.8	947.4	996.6	1052.1	1069.6
50°	869.7	890.3	945.8	1004.5	1025.2
52.5°	807.8	834.7	898.2	956.9	977.6
55°	752.2	777.6	842.7	909.3	931.5
57.5°	688.7	718.9	790.3	860.1	883.9
60°	630.0	661.8	737.9	809.3	833.2
62.5°	569.7	604.6	685.6	758.6	785.5
65°	504.7	547.5	633.2	707.8	734.8
67.5°	445.9	490.4	580.8	657.0	680.8
70°	379.3	433.2	525.3	601.5	628.4
72.5°	322.2	376.1	472.9	547.5	574.5
75°	261.8	320.6	417.4	492.0	515.8
77.5°	201.5	266.6	363.4	420.5	428.5
80°	144.4	212.7	301.5	334.8	346.0
82.5°	101.6	163.5	222.2	244.4	250.7
85°	55.5	107.9	139.7	149.2	149.2
87.5°	23.8	46.0	55.5	57.1	58.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)