

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: P263708

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263708
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-LD5-65-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4534.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

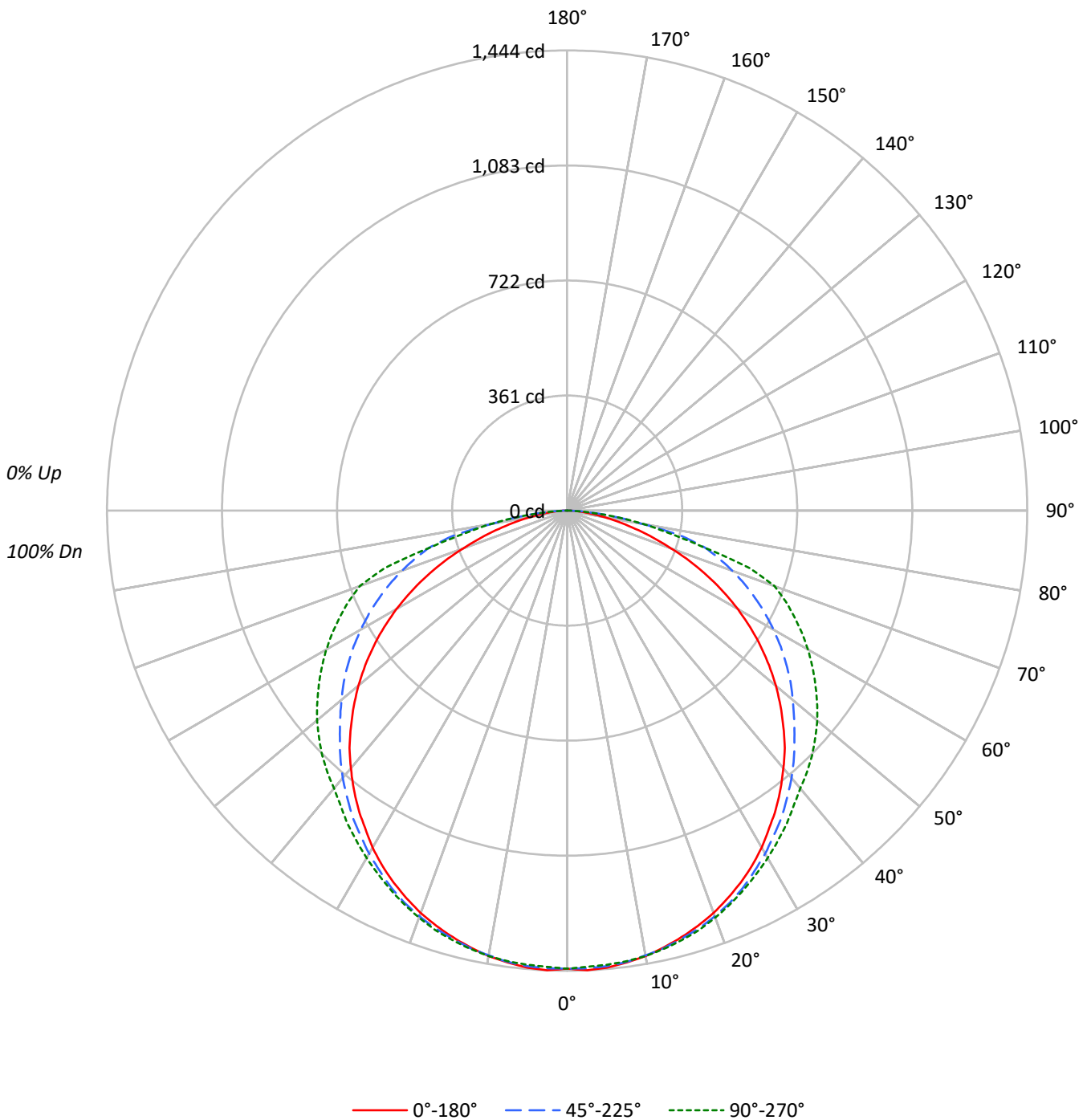
Input Watts (W): 49.476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1934	1934	1934
5°	1944	1938	1932
10°	1939	1936	1939
15°	1931	1937	1943
20°	1924	1940	1946
25°	1912	1938	1948
30°	1897	1931	1956
35°	1877	1928	1972
40°	1854	1925	1999
45°	1826	1920	2068
50°	1789	1934	2144
55°	1738	1969	2230
60°	1664	2012	2348
65°	1549	2075	2501
70°	1370	2169	2722
75°	1149	2321	2286
80°	917	1833	1902
85°	724	1240	1138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.0
10°-20°	392.3	8.7
20°-30°	599.3	13.2
30°-40°	732.6	16.2
40°-50°	784.2	17.3
50°-60°	752.2	16.6
60°-70°	635.1	14.0
70°-80°	405.9	9.0
80°-90°	96.0	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°	1127.9	24.9
0°-40°	1860.6	41.0
0°-60°	3397.0	74.9
0°-90°	4534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1440	1431	1435	1433	1431	137
15°	1386	1382	1390	1395	1395	391
25°	1288	1286	1306	1310	1312	594
35°	1143	1152	1174	1190	1201	714
45°	960	975	1009	1056	1087	740
55°	741	766	839	915	951	661
65°	486	533	652	743	786	480
75°	221	315	446	455	440	238
85°	47	78	80	78	74	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.3	1437.3	1437.3	1437.3	1437.3
2.5°	1444.0	1435.1	1437.3	1437.3	1432.9
5°	1439.5	1430.6	1435.1	1432.9	1430.6
7.5°	1430.6	1423.9	1428.4	1428.4	1426.2
10°	1419.5	1412.8	1417.2	1419.5	1419.5
12.5°	1403.8	1399.4	1406.1	1406.1	1408.3
15°	1386.0	1381.5	1390.4	1394.9	1394.9
17.5°	1365.9	1363.7	1374.8	1377.1	1379.3
20°	1343.6	1341.3	1354.7	1354.7	1359.2
22.5°	1316.8	1314.6	1332.4	1332.4	1336.9
25°	1287.8	1285.5	1305.6	1310.1	1312.3
27.5°	1256.5	1254.3	1274.4	1281.1	1285.5
30°	1220.8	1220.8	1243.1	1252.1	1258.8
32.5°	1180.7	1187.3	1207.4	1220.8	1229.8
35°	1142.7	1151.6	1174.0	1189.6	1200.7
37.5°	1100.3	1109.2	1133.8	1153.9	1167.3
40°	1055.7	1066.8	1095.8	1118.2	1138.2
42.5°	1011.0	1022.2	1053.4	1086.9	1113.7
45°	959.7	975.3	1008.8	1055.7	1086.9
47.5°	908.4	924.0	966.4	1024.4	1055.7
50°	854.8	872.7	924.0	990.9	1024.4
52.5°	799.0	819.1	883.8	955.2	988.7
55°	741.0	765.5	839.2	915.1	950.8
57.5°	680.7	707.5	794.5	874.9	912.8
60°	618.2	651.7	747.7	832.5	872.7
62.5°	553.5	593.7	700.8	787.8	830.3
65°	486.5	533.4	651.7	743.2	785.6
67.5°	417.4	479.8	602.6	698.6	741.0
70°	348.2	421.8	551.3	649.5	691.9
72.5°	283.4	368.3	499.9	591.4	600.4
75°	221.0	314.7	446.4	455.3	439.7
77.5°	165.2	261.1	368.3	328.1	325.9
80°	118.3	209.8	236.6	243.3	245.5
82.5°	78.1	158.5	154.0	158.5	156.2
85°	46.9	78.1	80.3	78.1	73.7
87.5°	22.3	29.0	22.3	20.1	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)