

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: P263860

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263860
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-LD5-75-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.0 lumens
Efficiency: N/A
Efficacy: 76.6 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

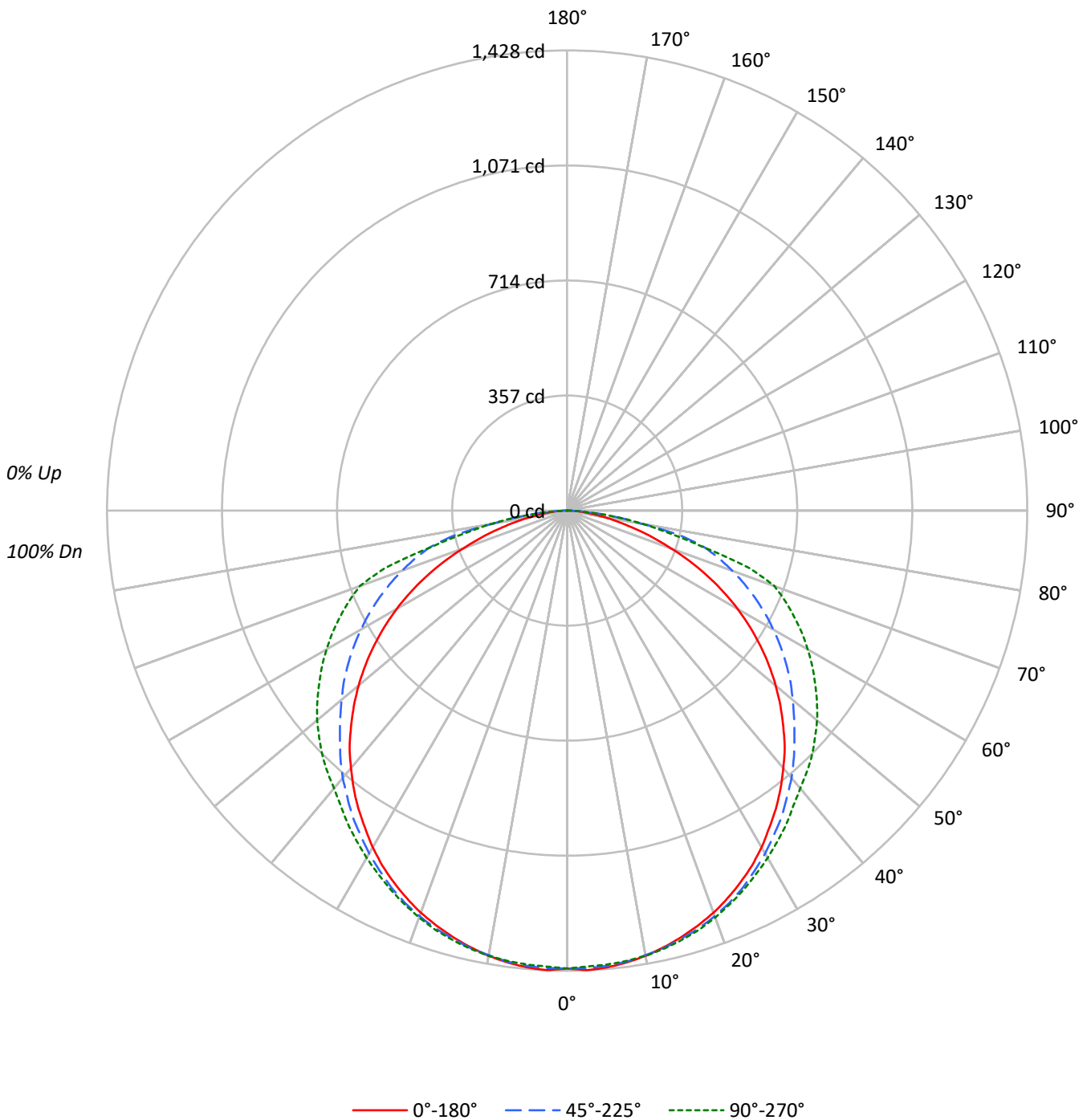
Input Watts (W): 58.497
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	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°	1912	1912	1912
5°	1922	1916	1910
10°	1917	1914	1917
15°	1908	1915	1921
20°	1902	1918	1924
25°	1890	1916	1926
30°	1875	1909	1933
35°	1855	1906	1950
40°	1833	1903	1976
45°	1805	1897	2044
50°	1769	1912	2120
55°	1718	1946	2205
60°	1644	1989	2321
65°	1531	2051	2472
70°	1354	2144	2690
75°	1135	2294	2259
80°	906	1812	1881
85°	715	1226	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	3.0
10°-20°	387.8	8.7
20°-30°	592.4	13.2
30°-40°	724.2	16.2
40°-50°	775.2	17.3
50°-60°	743.6	16.6
60°-70°	627.8	14.0
70°-80°	401.3	9.0
80°-90°	94.9	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°	1115.0	24.9
0°-40°	1839.2	41.0
0°-60°	3358.0	74.9
0°-90°	4482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1423	1414	1419	1416	1414	135
15°	1370	1366	1374	1379	1379	387
25°	1273	1271	1291	1295	1297	587
35°	1130	1138	1160	1176	1187	706
45°	949	964	997	1044	1074	732
55°	732	757	830	905	940	654
65°	481	527	644	735	777	474
75°	218	311	441	450	435	235
85°	46	77	79	77	73	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1427.5	1418.6	1420.8	1420.8	1416.4
5°	1423.0	1414.2	1418.6	1416.4	1414.2
7.5°	1414.2	1407.6	1412.0	1412.0	1409.8
10°	1403.2	1396.6	1401.0	1403.2	1403.2
12.5°	1387.7	1383.3	1389.9	1389.9	1392.2
15°	1370.1	1365.7	1374.5	1378.9	1378.9
17.5°	1350.2	1348.0	1359.1	1361.3	1363.5
20°	1328.2	1326.0	1339.2	1339.2	1343.6
22.5°	1301.7	1299.5	1317.1	1317.1	1321.5
25°	1273.0	1270.8	1290.7	1295.1	1297.3
27.5°	1242.1	1239.9	1259.8	1266.4	1270.8
30°	1206.8	1206.8	1228.9	1237.7	1244.3
32.5°	1167.1	1173.7	1193.6	1206.8	1215.6
35°	1129.6	1138.4	1160.5	1175.9	1187.0
37.5°	1087.7	1096.5	1120.8	1140.6	1153.9
40°	1043.6	1054.6	1083.3	1105.3	1125.2
42.5°	999.4	1010.5	1041.4	1074.4	1100.9
45°	948.7	964.1	997.2	1043.6	1074.4
47.5°	897.9	913.4	955.3	1012.7	1043.6
50°	845.0	862.6	913.4	979.6	1012.7
52.5°	789.8	809.7	873.7	944.3	977.4
55°	732.5	756.7	829.6	904.6	939.9
57.5°	672.9	699.4	785.4	864.9	902.4
60°	611.1	644.2	739.1	822.9	862.6
62.5°	547.2	586.9	692.8	778.8	820.7
65°	481.0	527.3	644.2	734.7	776.6
67.5°	412.6	474.3	595.7	690.6	732.5
70°	344.2	417.0	544.9	642.0	683.9
72.5°	280.2	364.0	494.2	584.7	593.5
75°	218.4	311.1	441.3	450.1	434.6
77.5°	163.3	258.1	364.0	324.3	322.1
80°	116.9	207.4	233.9	240.5	242.7
82.5°	77.2	156.6	152.2	156.6	154.4
85°	46.3	77.2	79.4	77.2	72.8
87.5°	22.1	28.7	22.1	19.9	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)