

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: P276964

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276964
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-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4528.1 lumens
Efficiency: N/A
Efficacy: 78.0 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

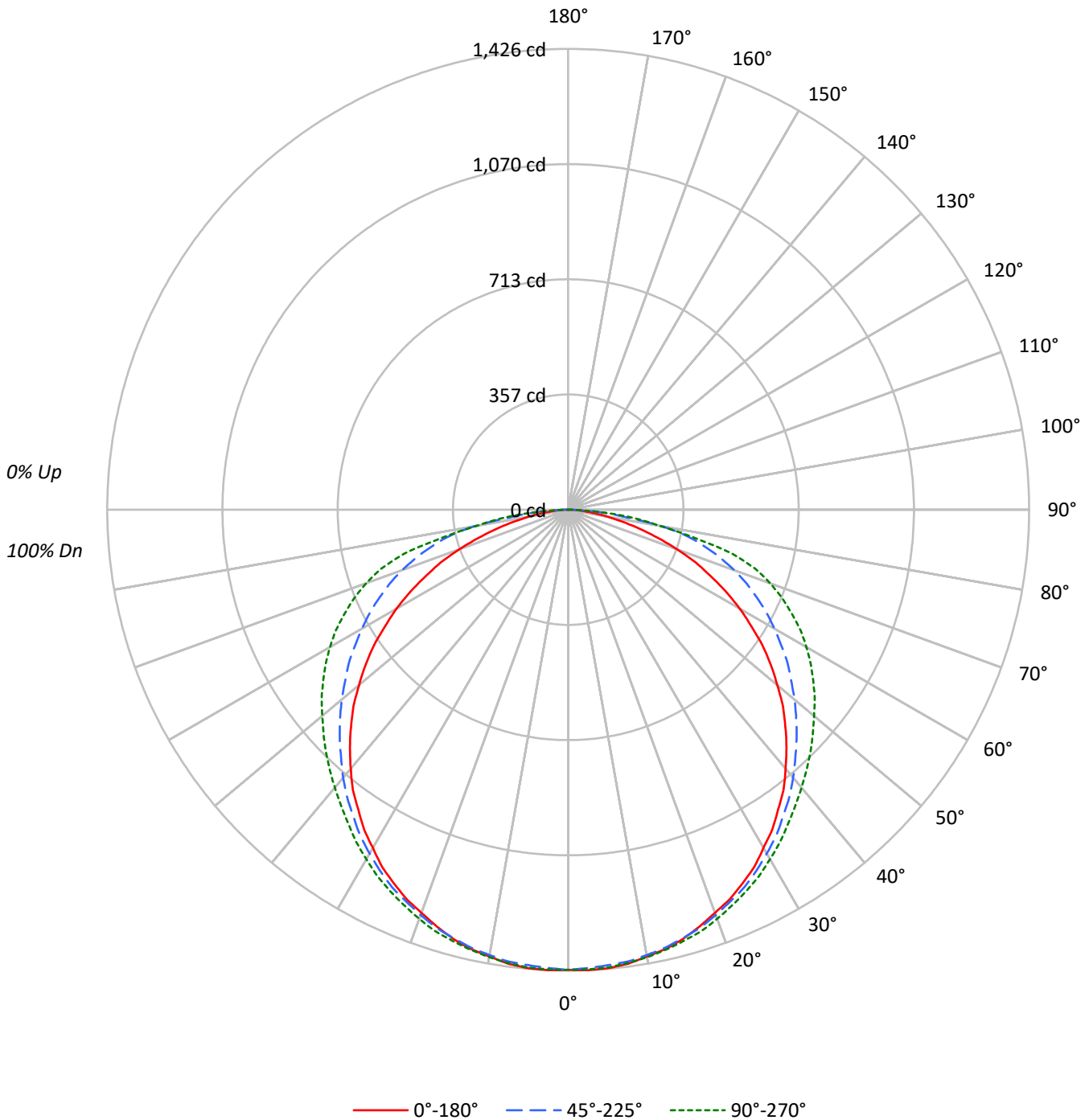
Input Watts (W): 58.032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276964

CATALOG NUMBER: 24CZ2-75HE-RDP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P276964

CATALOG NUMBER: 24CZ2-75HE-RDP-UNV-L82765-W2A1-U-3000K

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°	1916	1916	1916
5°	1923	1911	1920
10°	1918	1912	1921
15°	1915	1912	1924
20°	1901	1910	1930
25°	1894	1914	1934
30°	1877	1909	1940
35°	1859	1904	1948
40°	1838	1901	1972
45°	1808	1902	2017
50°	1768	1913	2078
55°	1723	1944	2171
60°	1650	1982	2291
65°	1544	2052	2431
70°	1405	2147	2615
75°	1191	2265	2732
80°	940	2280	2210
85°	693	1734	1942



TEST NUMBER: P276964

CATALOG NUMBER: 24CZ2-75HE-RDP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.0
10°-20°	388.8	8.6
20°-30°	594.5	13.1
30°-40°	726.7	16.0
40°-50°	774.6	17.1
50°-60°	740.6	16.4
60°-70°	627.4	13.9
70°-80°	421.6	9.3
80°-90°	118.9	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°	1118.3	24.7
0°-40°	1845.0	40.7
0°-60°	3360.2	74.2
0°-90°	4528.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4528.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1424	1422	1415	1422	1422	135
15°	1375	1375	1372	1384	1381	388
25°	1276	1280	1289	1300	1303	588
35°	1132	1141	1159	1181	1186	709
45°	950	966	1000	1042	1060	733
55°	734	761	829	894	925	654
65°	485	535	645	730	764	482
75°	229	312	436	510	526	245
85°	45	92	112	121	126	56
90°	0	0	0	0	0	



TEST NUMBER: P276964

CATALOG NUMBER: 24CZ2-75HE-RDP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424.0	1424.0	1424.0	1424.0	1424.0
2.5°	1426.2	1426.2	1419.5	1424.0	1424.0
5°	1424.0	1421.7	1415.0	1421.7	1421.7
7.5°	1417.2	1415.0	1410.5	1417.2	1415.0
10°	1403.8	1403.8	1399.3	1406.0	1406.0
12.5°	1392.5	1390.3	1388.0	1397.0	1394.8
15°	1374.6	1374.6	1372.3	1383.5	1381.3
17.5°	1352.1	1354.3	1356.6	1365.6	1367.8
20°	1327.4	1331.9	1334.1	1347.6	1347.6
22.5°	1304.9	1307.2	1311.7	1325.1	1325.1
25°	1275.7	1280.2	1289.2	1300.4	1302.7
27.5°	1246.5	1248.8	1260.0	1275.7	1278.0
30°	1208.4	1215.1	1228.6	1246.5	1248.8
32.5°	1174.7	1181.4	1197.1	1215.1	1219.6
35°	1132.0	1141.0	1158.9	1181.4	1185.9
37.5°	1093.8	1100.5	1123.0	1147.7	1154.5
40°	1046.6	1060.1	1082.6	1111.8	1123.0
42.5°	999.5	1013.0	1039.9	1078.1	1091.6
45°	950.1	965.8	999.5	1042.2	1060.1
47.5°	900.7	918.6	956.8	1006.2	1026.4
50°	844.5	867.0	914.1	970.3	992.7
52.5°	790.6	817.6	869.2	932.1	961.3
55°	734.4	761.4	828.8	893.9	925.4
57.5°	671.6	707.5	781.6	855.7	889.4
60°	613.2	646.9	736.7	817.6	851.2
62.5°	550.3	595.2	691.8	777.1	810.8
65°	485.1	534.6	644.6	730.0	763.6
67.5°	426.7	480.6	597.4	682.8	716.5
70°	357.1	424.5	545.8	631.1	664.8
72.5°	292.0	366.1	491.9	575.0	606.4
75°	229.1	312.2	435.7	509.8	525.6
77.5°	170.7	258.3	377.3	408.8	397.5
80°	121.3	206.6	294.2	278.5	285.2
82.5°	78.6	157.2	181.9	206.6	213.4
85°	44.9	92.1	112.3	121.3	125.8
87.5°	20.2	33.7	44.9	44.9	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)