

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: P276575

Luminaire Tested: **24CZ2-40-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4143.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

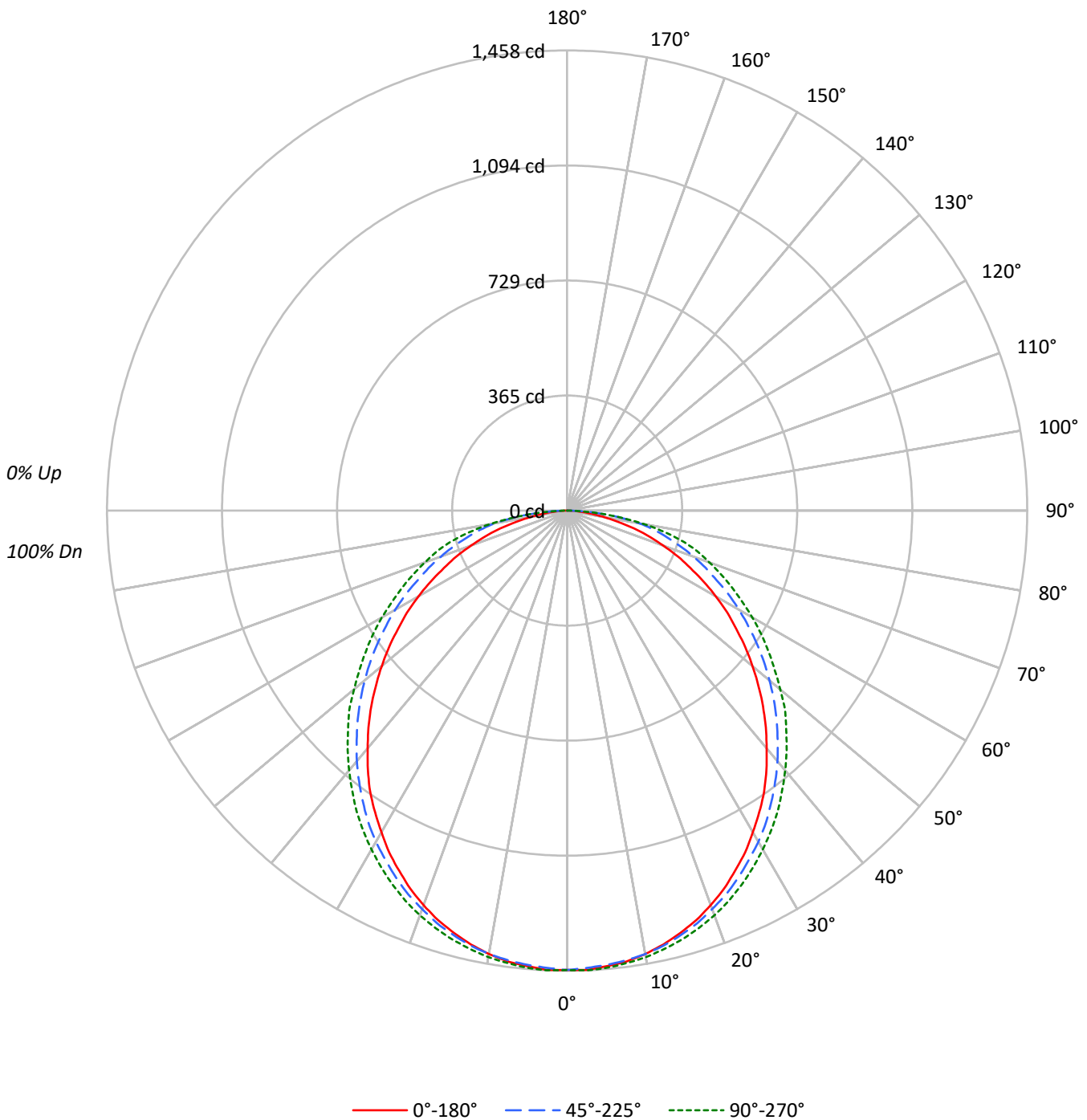
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1958	1958	1958
5°	1957	1952	1964
10°	1949	1949	1963
15°	1930	1939	1960
20°	1905	1924	1954
25°	1870	1905	1942
30°	1828	1883	1926
35°	1788	1852	1911
40°	1727	1821	1888
45°	1670	1785	1868
50°	1606	1752	1846
55°	1534	1719	1827
60°	1463	1693	1824
65°	1370	1663	1835
70°	1268	1672	1884
75°	1135	1704	1991
80°	917	1805	1947
85°	690	1584	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.3
10°-20°	393.7	9.5
20°-30°	591.8	14.3
30°-40°	705.0	17.0
40°-50°	721.5	17.4
50°-60°	649.6	15.7
60°-70°	510.1	12.3
70°-80°	331.1	8.0
80°-90°	102.4	2.5
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°	1123.3	27.1
0°-40°	1828.3	44.1
0°-60°	3199.4	77.2
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1449	1452	1445	1453	1454	138
15°	1386	1390	1392	1404	1407	391
25°	1259	1270	1283	1304	1308	580
35°	1088	1102	1128	1155	1163	679
45°	878	899	938	974	982	677
55°	654	683	733	771	779	586
65°	430	463	522	566	576	428
75°	218	261	328	372	383	231
85°	45	83	103	100	100	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.5	1455.5	1455.5	1455.5	1455.5
2.5°	1456.8	1456.8	1450.2	1456.8	1458.1
5°	1448.9	1451.5	1444.9	1452.8	1454.1
7.5°	1441.0	1441.0	1437.0	1444.9	1446.2
10°	1426.5	1427.8	1426.5	1435.7	1437.0
12.5°	1408.1	1410.7	1412.0	1421.2	1422.6
15°	1385.7	1389.7	1392.3	1404.1	1406.8
17.5°	1360.7	1364.7	1371.2	1384.4	1387.0
20°	1330.4	1335.7	1343.6	1360.7	1364.7
22.5°	1297.5	1302.8	1316.0	1331.8	1338.3
25°	1259.4	1269.9	1283.1	1304.1	1308.1
27.5°	1221.2	1230.4	1247.5	1269.9	1275.2
30°	1176.5	1190.9	1212.0	1234.4	1239.6
32.5°	1133.0	1147.5	1172.5	1196.2	1202.8
35°	1088.3	1101.5	1127.8	1155.4	1163.3
37.5°	1037.0	1054.1	1083.0	1110.7	1118.6
40°	983.0	1004.1	1037.0	1065.9	1075.1
42.5°	931.7	954.1	987.0	1018.6	1029.1
45°	877.7	898.8	938.3	973.8	981.7
47.5°	822.5	846.2	888.3	923.8	937.0
50°	767.2	792.2	837.0	873.8	881.7
52.5°	711.9	738.3	785.6	825.1	829.1
55°	654.0	683.0	733.0	771.2	779.0
57.5°	601.4	626.4	680.4	719.8	729.0
60°	543.5	571.1	629.0	665.9	677.7
62.5°	488.2	517.2	577.7	614.6	625.1
65°	430.3	463.2	522.4	565.9	576.4
67.5°	380.3	411.9	475.1	517.2	527.7
70°	322.4	357.9	425.1	468.5	479.0
72.5°	272.4	309.3	376.4	418.5	434.3
75°	218.4	260.6	327.7	372.4	382.9
77.5°	165.8	214.5	282.9	317.1	317.1
80°	118.4	169.8	232.9	248.7	251.3
82.5°	77.6	127.6	172.4	171.1	171.1
85°	44.7	82.9	102.6	100.0	100.0
87.5°	17.1	34.2	36.8	36.8	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)