

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: P263299

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4806.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

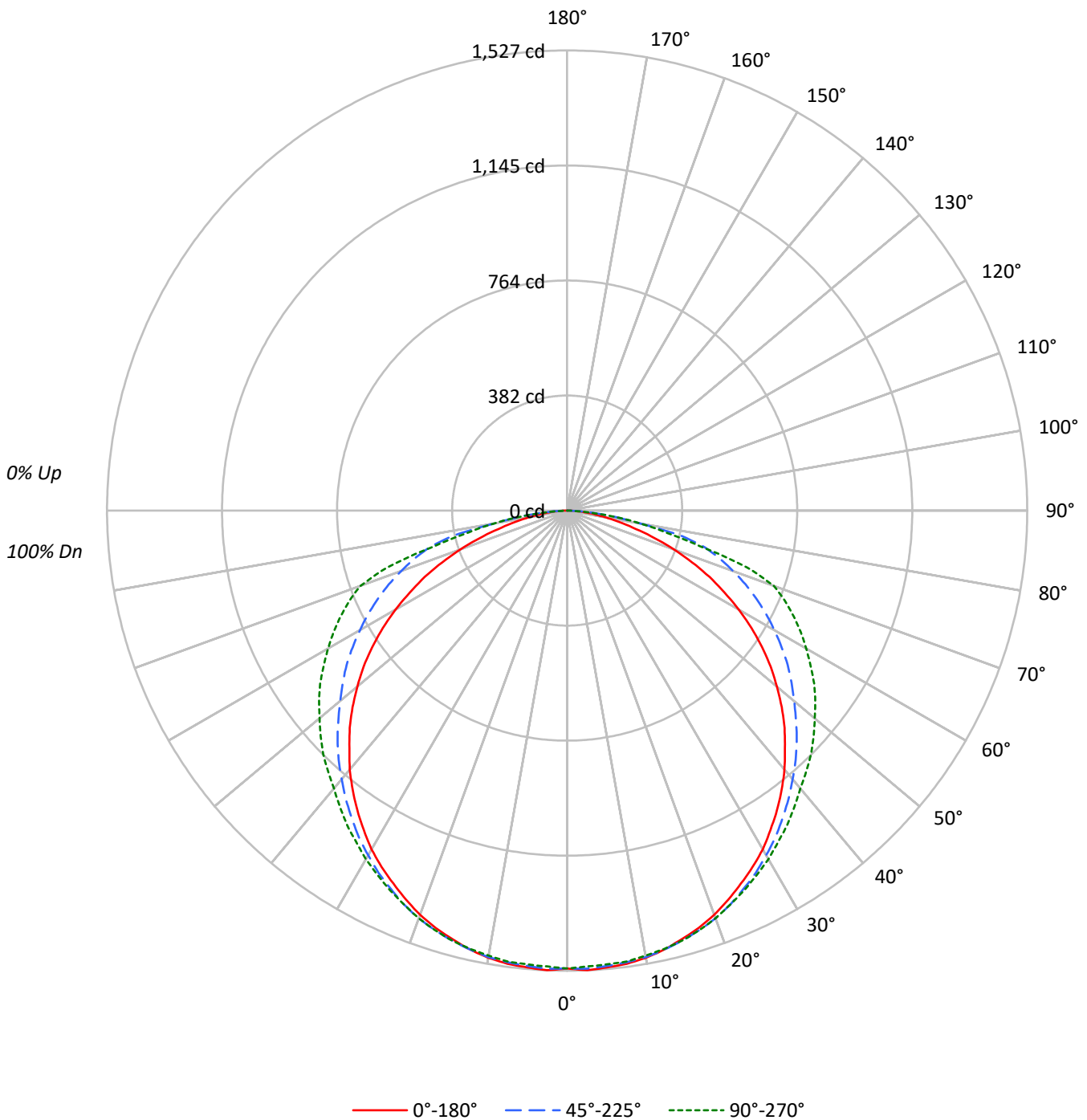
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	2044	2044	2044
5°	2055	2049	2042
10°	2059	2055	2049
15°	2051	2058	2058
20°	2044	2062	2062
25°	2027	2056	2064
30°	2017	2052	2075
35°	1994	2047	2092
40°	1971	2045	2115
45°	1941	2050	2178
50°	1902	2058	2245
55°	1852	2096	2347
60°	1770	2138	2465
65°	1660	2205	2640
70°	1484	2305	2871
75°	1226	2465	2375
80°	1000	1905	1923
85°	804	1264	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	3.0
10°-20°	416.4	8.7
20°-30°	636.3	13.2
30°-40°	778.3	16.2
40°-50°	832.8	17.3
50°-60°	797.4	16.6
60°-70°	674.6	14.0
70°-80°	427.6	8.9
80°-90°	98.4	2.0
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°	1197.0	24.9
0°-40°	1975.3	41.1
0°-60°	3605.5	75.0
0°-90°	4806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1522	1514	1517	1514	1512	145
15°	1472	1470	1477	1477	1477	416
25°	1365	1365	1385	1390	1390	630
35°	1214	1221	1246	1264	1274	759
45°	1020	1038	1077	1122	1144	786
55°	789	814	894	968	1000	704
65°	521	571	693	787	829	514
75°	236	333	474	472	457	256
85°	52	79	82	74	77	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.3	1519.3	1519.3	1519.3	1519.3
2.5°	1526.7	1519.3	1521.7	1519.3	1514.3
5°	1521.7	1514.3	1516.8	1514.3	1511.8
7.5°	1516.8	1509.3	1511.8	1509.3	1509.3
10°	1506.9	1499.4	1504.4	1501.9	1499.4
12.5°	1492.0	1487.0	1492.0	1489.5	1489.5
15°	1472.1	1469.6	1477.1	1477.1	1477.1
17.5°	1452.2	1449.8	1459.7	1459.7	1459.7
20°	1427.4	1424.9	1439.8	1439.8	1439.8
22.5°	1397.6	1395.1	1415.0	1415.0	1415.0
25°	1365.4	1365.4	1385.2	1390.2	1390.2
27.5°	1333.1	1333.1	1355.4	1362.9	1362.9
30°	1298.3	1298.3	1320.7	1330.6	1335.6
32.5°	1256.1	1261.1	1285.9	1298.3	1303.3
35°	1213.9	1221.4	1246.2	1263.6	1273.5
37.5°	1169.2	1176.7	1206.5	1226.3	1238.7
40°	1122.1	1132.0	1164.3	1189.1	1204.0
42.5°	1069.9	1084.8	1122.1	1154.3	1174.2
45°	1020.3	1037.7	1077.4	1122.1	1144.4
47.5°	965.7	985.5	1030.2	1087.3	1109.7
50°	908.6	928.4	983.1	1047.6	1072.4
52.5°	851.5	873.8	938.4	1007.9	1037.7
55°	789.4	814.2	893.7	968.2	1000.4
57.5°	724.9	754.7	844.0	923.5	958.2
60°	657.9	695.1	794.4	878.8	916.0
62.5°	588.3	633.0	744.7	834.1	873.8
65°	521.3	571.0	692.6	786.9	829.1
67.5°	449.3	511.4	640.5	742.3	782.0
70°	377.3	449.3	585.9	690.1	729.8
72.5°	305.3	392.2	531.2	625.6	625.6
75°	235.8	332.6	474.2	471.7	456.8
77.5°	178.7	278.0	389.7	332.6	335.1
80°	129.1	223.4	245.8	245.8	248.2
82.5°	86.9	171.3	158.9	156.4	161.4
85°	52.1	79.4	81.9	74.5	77.0
87.5°	24.8	27.3	22.3	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)