

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: P263609

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263609
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-LD5-70-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4498.6 lumens
Efficiency: N/A
Efficacy: 81.7 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

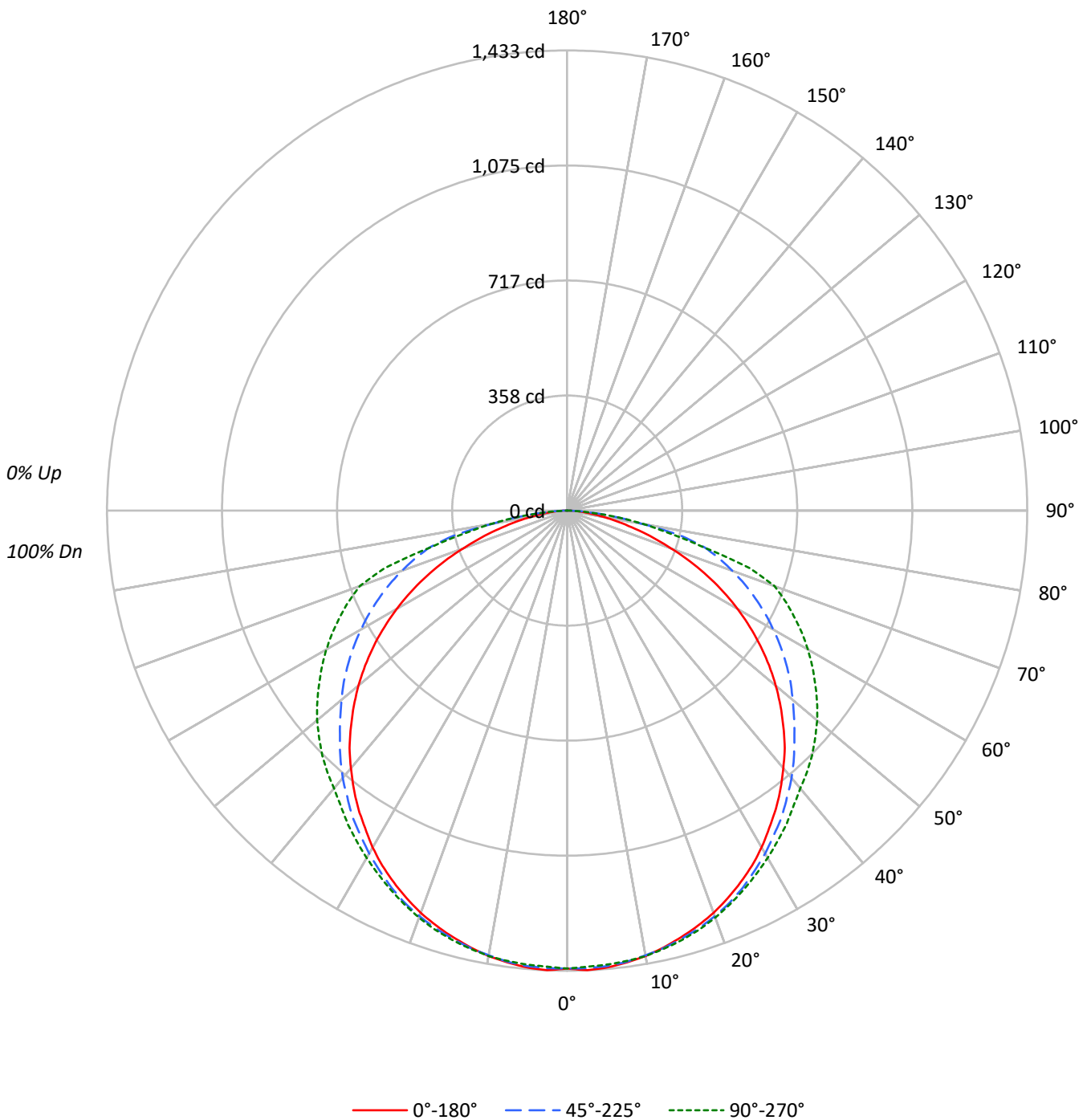
Input Watts (W): 55.056186
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1919	1919	1919
5°	1929	1923	1917
10°	1924	1921	1924
15°	1916	1922	1928
20°	1909	1925	1931
25°	1897	1923	1933
30°	1882	1916	1940
35°	1862	1913	1957
40°	1840	1910	1984
45°	1812	1905	2052
50°	1775	1919	2128
55°	1725	1953	2213
60°	1651	1996	2330
65°	1537	2059	2482
70°	1359	2152	2701
75°	1140	2302	2268
80°	910	1819	1888
85°	718	1230	1129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.0
10°-20°	389.3	8.7
20°-30°	594.6	13.2
30°-40°	726.9	16.2
40°-50°	778.1	17.3
50°-60°	746.3	16.6
60°-70°	630.2	14.0
70°-80°	402.7	9.0
80°-90°	95.2	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°	1119.1	24.9
0°-40°	1846.0	41.0
0°-60°	3370.4	74.9
0°-90°	4498.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4498.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1428	1420	1424	1422	1420	136
15°	1375	1371	1380	1384	1384	388
25°	1278	1276	1295	1300	1302	589
35°	1134	1143	1165	1180	1191	709
45°	952	968	1001	1047	1078	734
55°	735	760	833	908	943	656
65°	483	529	647	737	780	476
75°	219	312	443	452	436	236
85°	46	78	80	78	73	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1432.7	1423.9	1426.1	1426.1	1421.7
5°	1428.3	1419.5	1423.9	1421.7	1419.5
7.5°	1419.5	1412.8	1417.2	1417.2	1415.0
10°	1408.4	1401.7	1406.2	1408.4	1408.4
12.5°	1392.9	1388.5	1395.1	1395.1	1397.3
15°	1375.2	1370.7	1379.6	1384.0	1384.0
17.5°	1355.2	1353.0	1364.1	1366.3	1368.5
20°	1333.1	1330.9	1344.2	1344.2	1348.6
22.5°	1306.5	1304.3	1322.0	1322.0	1326.4
25°	1277.7	1275.5	1295.4	1299.9	1302.1
27.5°	1246.7	1244.5	1264.4	1271.1	1275.5
30°	1211.3	1211.3	1233.4	1242.3	1248.9
32.5°	1171.4	1178.1	1198.0	1211.3	1220.2
35°	1133.8	1142.6	1164.8	1180.3	1191.4
37.5°	1091.7	1100.6	1124.9	1144.9	1158.1
40°	1047.4	1058.5	1087.3	1109.4	1129.4
42.5°	1003.1	1014.2	1045.2	1078.4	1105.0
45°	952.2	967.7	1000.9	1047.4	1078.4
47.5°	901.3	916.8	958.9	1016.4	1047.4
50°	848.1	865.8	916.8	983.2	1016.4
52.5°	792.8	812.7	876.9	947.8	981.0
55°	735.2	759.6	832.6	907.9	943.3
57.5°	675.4	702.0	788.3	868.1	905.7
60°	613.4	646.6	741.8	826.0	865.8
62.5°	549.2	589.0	695.3	781.7	823.8
65°	482.7	529.3	646.6	737.4	779.5
67.5°	414.1	476.1	597.9	693.1	735.2
70°	345.5	418.5	547.0	644.4	686.5
72.5°	281.2	365.4	496.0	586.8	595.7
75°	219.2	312.2	442.9	451.7	436.2
77.5°	163.9	259.1	365.4	325.5	323.3
80°	117.4	208.2	234.7	241.4	243.6
82.5°	77.5	157.2	152.8	157.2	155.0
85°	46.5	77.5	79.7	77.5	73.1
87.5°	22.1	28.8	22.1	19.9	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)