

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: P263714

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263714
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4497.0 lumens
Efficiency: N/A
Efficacy: 83.8 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

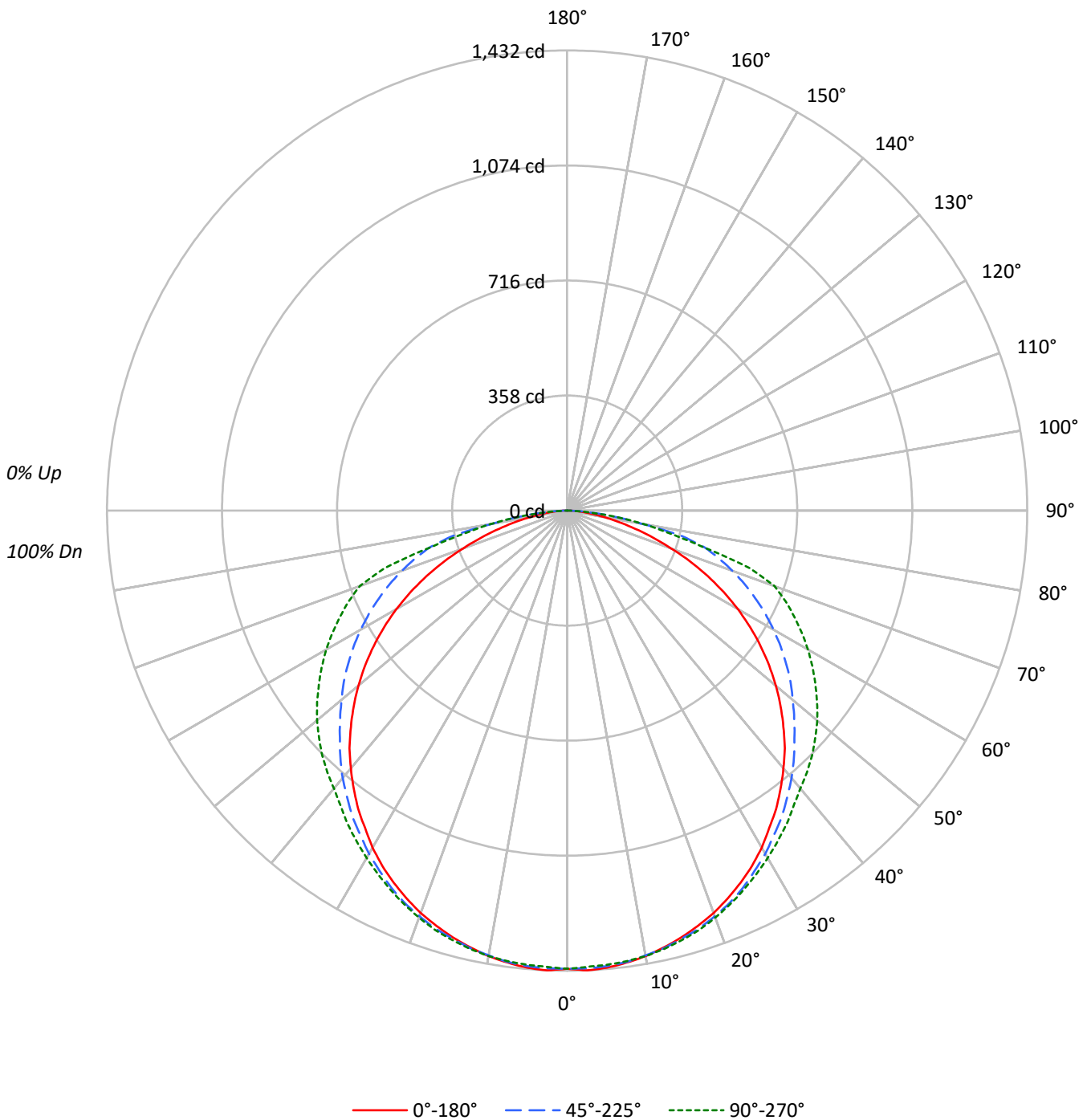
Input Watts (W): 53.661
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1918	1918	1918
5°	1928	1922	1916
10°	1924	1921	1924
15°	1915	1921	1927
20°	1908	1924	1930
25°	1896	1923	1932
30°	1881	1916	1940
35°	1862	1913	1956
40°	1839	1909	1983
45°	1811	1904	2051
50°	1775	1918	2127
55°	1724	1952	2212
60°	1650	1996	2329
65°	1536	2058	2481
70°	1358	2151	2699
75°	1140	2301	2267
80°	909	1818	1887
85°	718	1230	1129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.0
10°-20°	389.1	8.7
20°-30°	594.4	13.2
30°-40°	726.7	16.2
40°-50°	777.8	17.3
50°-60°	746.1	16.6
60°-70°	629.9	14.0
70°-80°	402.6	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°	1118.7	24.9
0°-40°	1845.4	41.0
0°-60°	3369.3	74.9
0°-90°	4497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1428	1419	1423	1421	1419	136
15°	1375	1370	1379	1384	1384	388
25°	1277	1275	1295	1299	1302	589
35°	1133	1142	1164	1180	1191	709
45°	952	967	1001	1047	1078	734
55°	735	759	832	908	943	656
65°	483	529	646	737	779	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°	1425.6	1425.6	1425.6	1425.6	1425.6
2.5°	1432.2	1423.4	1425.6	1425.6	1421.2
5°	1427.8	1418.9	1423.4	1421.2	1418.9
7.5°	1418.9	1412.3	1416.7	1416.7	1414.5
10°	1407.9	1401.2	1405.7	1407.9	1407.9
12.5°	1392.4	1388.0	1394.6	1394.6	1396.8
15°	1374.7	1370.2	1379.1	1383.5	1383.5
17.5°	1354.7	1352.5	1363.6	1365.8	1368.0
20°	1332.6	1330.4	1343.7	1343.7	1348.1
22.5°	1306.0	1303.8	1321.5	1321.5	1326.0
25°	1277.3	1275.1	1295.0	1299.4	1301.6
27.5°	1246.3	1244.1	1264.0	1270.6	1275.1
30°	1210.9	1210.9	1233.0	1241.9	1248.5
32.5°	1171.0	1177.7	1197.6	1210.9	1219.7
35°	1133.4	1142.2	1164.4	1179.9	1190.9
37.5°	1091.3	1100.2	1124.5	1144.5	1157.7
40°	1047.1	1058.1	1086.9	1109.0	1129.0
42.5°	1002.8	1013.8	1044.8	1078.0	1104.6
45°	951.9	967.4	1000.6	1047.1	1078.0
47.5°	901.0	916.4	958.5	1016.1	1047.1
50°	847.8	865.5	916.4	982.9	1016.1
52.5°	792.5	812.4	876.6	947.4	980.6
55°	734.9	759.3	832.3	907.6	943.0
57.5°	675.2	701.7	788.1	867.7	905.4
60°	613.2	646.4	741.6	825.7	865.5
62.5°	549.0	588.8	695.1	781.4	823.5
65°	482.6	529.1	646.4	737.1	779.2
67.5°	414.0	475.9	597.7	692.9	734.9
70°	345.3	418.4	546.8	644.2	686.2
72.5°	281.1	365.3	495.9	586.6	595.5
75°	219.2	312.1	442.7	451.6	436.1
77.5°	163.8	259.0	365.3	325.4	323.2
80°	117.3	208.1	234.6	241.3	243.5
82.5°	77.5	157.2	152.7	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)