

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: P263672

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263672
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-LD5-45-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3112.0 lumens
Efficiency: N/A
Efficacy: 97.8 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

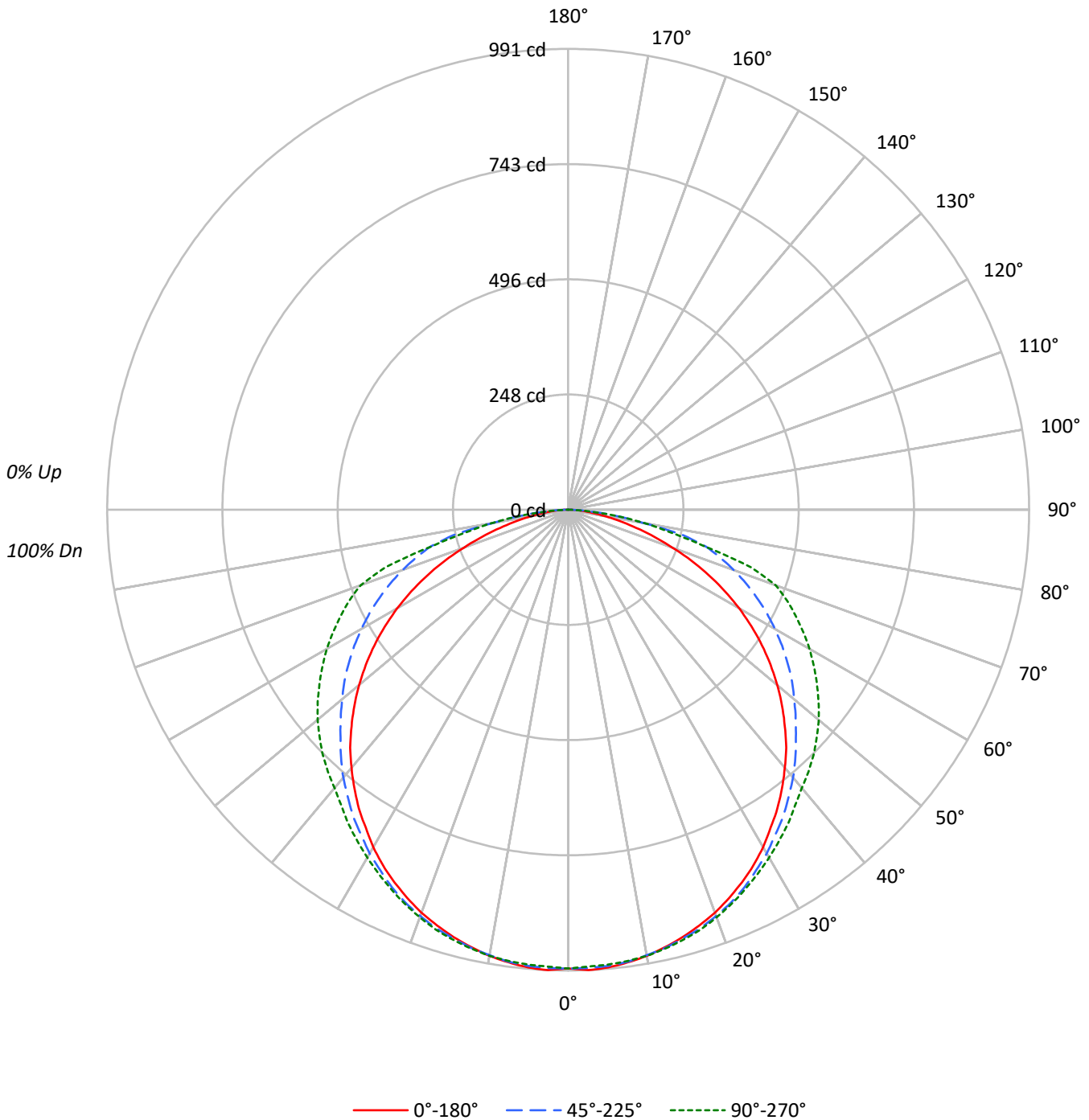
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1327	1327	1327
5°	1335	1330	1326
10°	1331	1329	1331
15°	1325	1329	1334
20°	1320	1331	1336
25°	1312	1330	1337
30°	1302	1326	1342
35°	1288	1324	1354
40°	1273	1321	1372
45°	1253	1318	1419
50°	1228	1328	1472
55°	1193	1351	1531
60°	1142	1381	1612
65°	1063	1424	1717
70°	940	1489	1868
75°	789	1593	1569
80°	629	1258	1306
85°	497	851	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.0
10°-20°	269.3	8.7
20°-30°	411.3	13.2
30°-40°	502.9	16.2
40°-50°	538.3	17.3
50°-60°	516.3	16.6
60°-70°	435.9	14.0
70°-80°	278.6	9.0
80°-90°	65.9	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°	774.2	24.9
0°-40°	1277.0	41.0
0°-60°	2331.6	74.9
0°-90°	3112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	988	982	985	984	982	94
15°	951	948	954	957	957	269
25°	884	882	896	899	901	407
35°	784	790	806	816	824	490
45°	659	669	692	725	746	508
55°	509	525	576	628	653	454
65°	334	366	447	510	539	329
75°	152	216	306	312	302	163
85°	32	54	55	54	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.5	986.5	986.5	986.5	986.5
2.5°	991.1	985.0	986.5	986.5	983.5
5°	988.1	981.9	985.0	983.5	981.9
7.5°	981.9	977.3	980.4	980.4	978.9
10°	974.3	969.7	972.7	974.3	974.3
12.5°	963.6	960.5	965.1	965.1	966.6
15°	951.3	948.2	954.4	957.4	957.4
17.5°	937.5	936.0	943.6	945.2	946.7
20°	922.2	920.7	929.9	929.9	932.9
22.5°	903.8	902.3	914.5	914.5	917.6
25°	883.9	882.4	896.1	899.2	900.7
27.5°	862.4	860.9	874.7	879.3	882.4
30°	837.9	837.9	853.3	859.4	864.0
32.5°	810.4	815.0	828.7	837.9	844.1
35°	784.3	790.4	805.8	816.5	824.2
37.5°	755.2	761.3	778.2	792.0	801.2
40°	724.6	732.2	752.2	767.5	781.3
42.5°	693.9	701.6	723.0	746.0	764.4
45°	658.7	669.4	692.4	724.6	746.0
47.5°	623.5	634.2	663.3	703.1	724.6
50°	586.7	599.0	634.2	680.2	703.1
52.5°	548.4	562.2	606.6	655.6	678.6
55°	508.6	525.4	576.0	628.1	652.6
57.5°	467.2	485.6	545.3	600.5	626.5
60°	424.3	447.3	513.2	571.4	599.0
62.5°	379.9	407.5	481.0	540.8	569.9
65°	333.9	366.1	447.3	510.1	539.2
67.5°	286.5	329.4	413.6	479.5	508.6
70°	239.0	289.5	378.4	445.8	474.9
72.5°	194.5	252.8	343.1	405.9	442.1
75°	151.7	216.0	306.4	312.5	301.8
77.5°	113.4	179.2	252.8	225.2	223.7
80°	81.2	144.0	162.4	167.0	168.5
82.5°	53.6	108.8	105.7	108.8	107.2
85°	32.2	53.6	55.1	53.6	50.6
87.5°	15.3	19.9	15.3	13.8	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)