

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: P263673

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263673
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3166.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

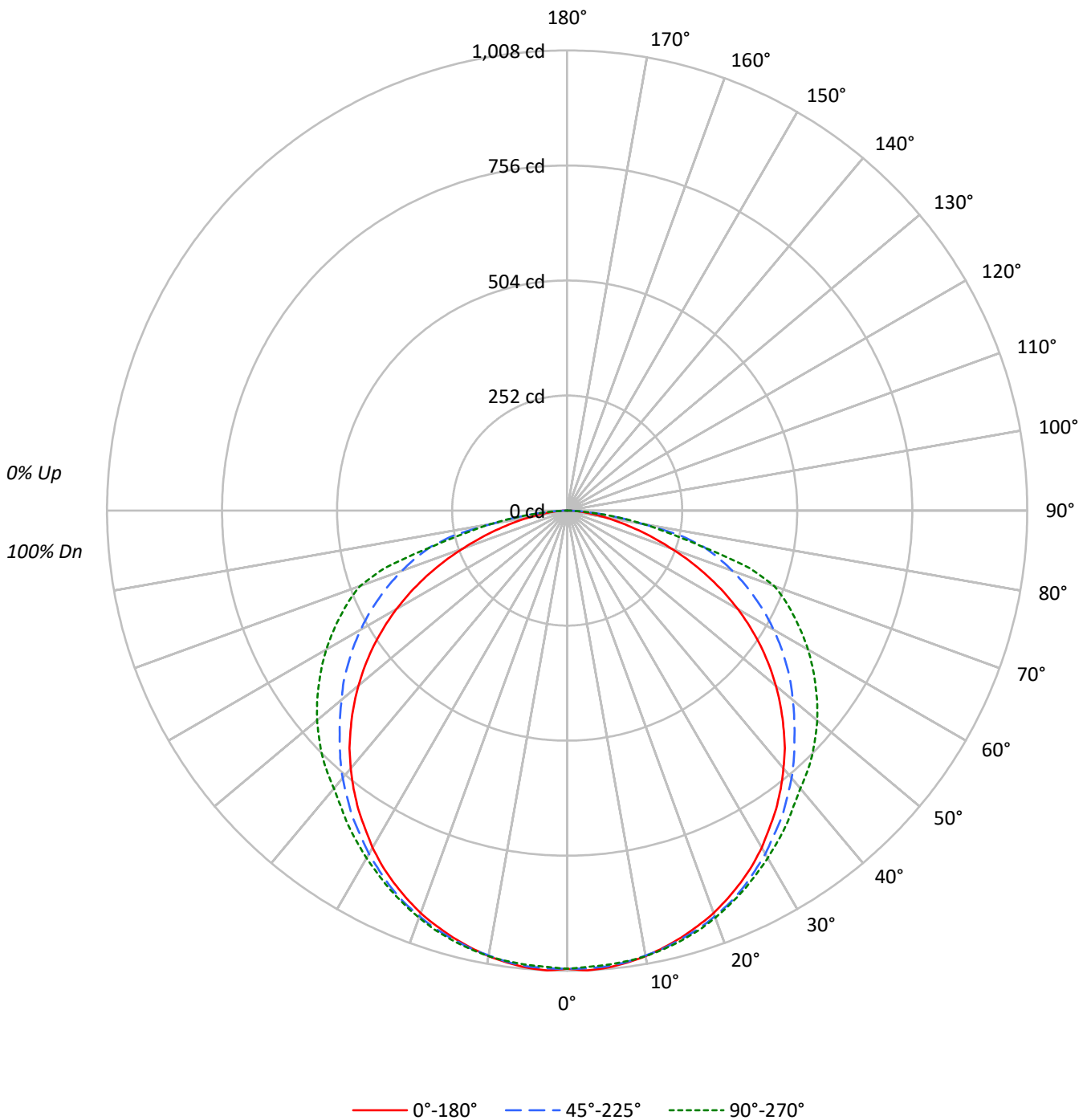
Input Watts (W): 31.992
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1350	1350	1350
5°	1358	1353	1349
10°	1354	1352	1354
15°	1348	1352	1357
20°	1343	1355	1359
25°	1335	1353	1360
30°	1324	1349	1366
35°	1311	1347	1377
40°	1295	1344	1396
45°	1275	1340	1444
50°	1249	1351	1497
55°	1214	1375	1557
60°	1162	1405	1640
65°	1082	1449	1747
70°	956	1514	1900
75°	802	1620	1596
80°	640	1280	1328
85°	505	866	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.0
10°-20°	274.0	8.7
20°-30°	418.5	13.2
30°-40°	511.6	16.2
40°-50°	547.6	17.3
50°-60°	525.3	16.6
60°-70°	443.5	14.0
70°-80°	283.4	9.0
80°-90°	67.0	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°	787.6	24.9
0°-40°	1299.2	41.0
0°-60°	2372.1	74.9
0°-90°	3166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1005	999	1002	1000	999	95
15°	968	965	971	974	974	273
25°	899	898	912	915	916	414
35°	798	804	820	831	838	499
45°	670	681	704	737	759	517
55°	517	535	586	639	664	462
65°	340	372	455	519	549	335
75°	154	220	312	318	307	166
85°	33	54	56	54	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.6	1003.6	1003.6	1003.6	1003.6
2.5°	1008.3	1002.1	1003.6	1003.6	1000.5
5°	1005.2	999.0	1002.1	1000.5	999.0
7.5°	999.0	994.3	997.4	997.4	995.9
10°	991.2	986.5	989.6	991.2	991.2
12.5°	980.3	977.2	981.8	981.8	983.4
15°	967.8	964.7	970.9	974.0	974.0
17.5°	953.8	952.2	960.0	961.6	963.1
20°	938.2	936.6	946.0	946.0	949.1
22.5°	919.5	917.9	930.4	930.4	933.5
25°	899.2	897.7	911.7	914.8	916.4
27.5°	877.4	875.9	889.9	894.6	897.7
30°	852.5	852.5	868.1	874.3	879.0
32.5°	824.4	829.1	843.1	852.5	858.7
35°	797.9	804.2	819.8	830.7	838.5
37.5°	768.3	774.6	791.7	805.7	815.1
40°	737.2	744.9	765.2	780.8	794.8
42.5°	706.0	713.8	735.6	759.0	777.7
45°	670.1	681.0	704.4	737.2	759.0
47.5°	634.3	645.2	674.8	715.3	737.2
50°	596.9	609.4	645.2	692.0	715.3
52.5°	557.9	572.0	617.2	667.0	690.4
55°	517.4	534.6	586.0	639.0	663.9
57.5°	475.3	494.0	554.8	610.9	637.4
60°	431.7	455.1	522.1	581.3	609.4
62.5°	386.5	414.6	489.4	550.1	579.7
65°	339.7	372.5	455.1	519.0	548.6
67.5°	291.4	335.1	420.8	487.8	517.4
70°	243.1	294.5	384.9	453.5	483.1
72.5°	197.9	257.1	349.1	413.0	419.2
75°	154.3	219.7	311.7	317.9	307.0
77.5°	115.3	182.3	257.1	229.1	227.5
80°	82.6	146.5	165.2	169.9	171.4
82.5°	54.5	110.7	107.5	110.7	109.1
85°	32.7	54.5	56.1	54.5	51.4
87.5°	15.6	20.3	15.6	14.0	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)