

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: P263816

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263816
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-LD5-50-RDP-UNV-L92765-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: 3085.0 lumens
Efficiency: N/A
Efficacy: 85.5 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

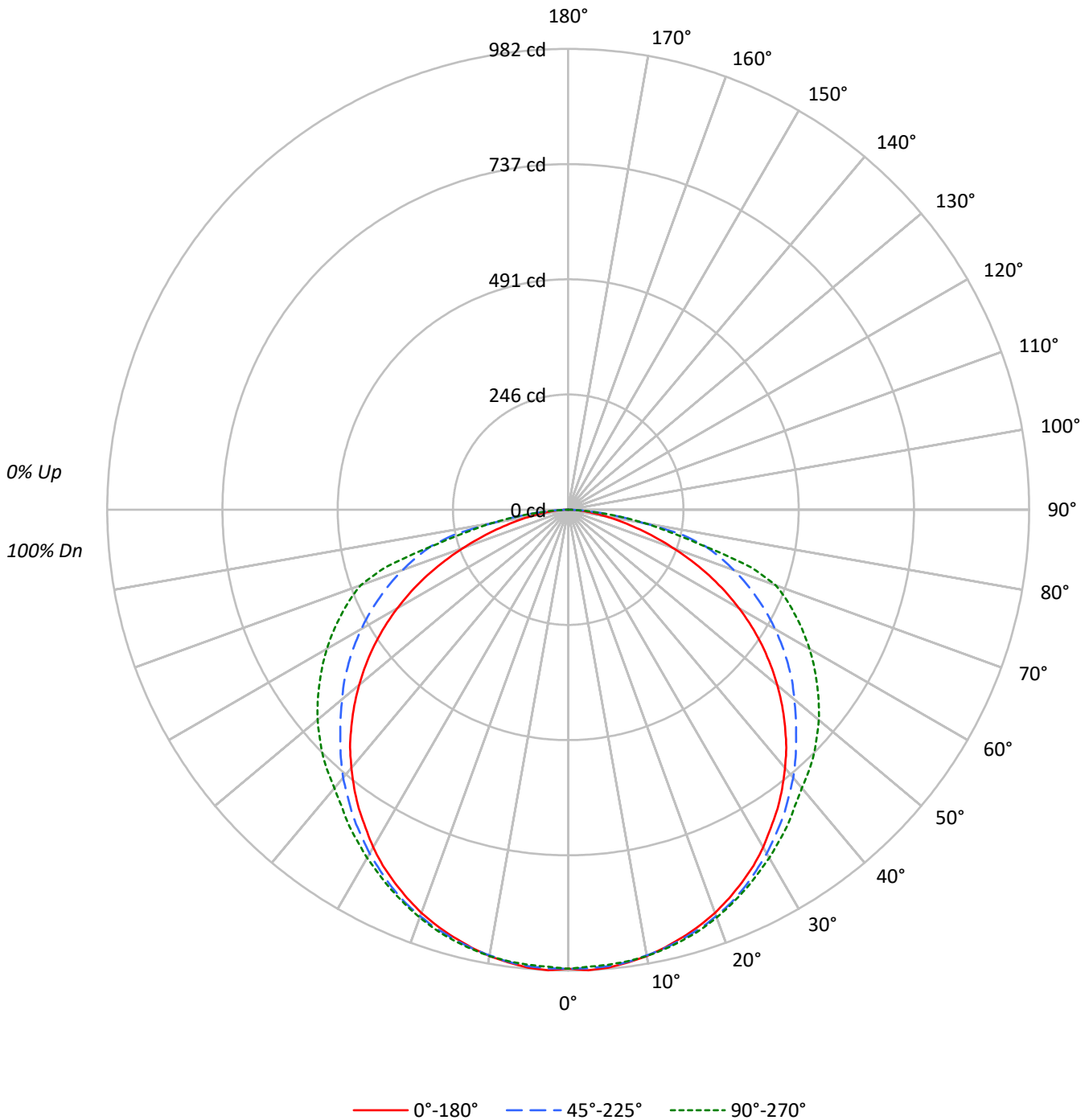
Input Watts (W): 36.084
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1316	1316	1316
5°	1323	1319	1315
10°	1320	1317	1320
15°	1314	1318	1322
20°	1309	1320	1324
25°	1301	1319	1326
30°	1291	1314	1331
35°	1277	1312	1342
40°	1262	1310	1360
45°	1243	1306	1407
50°	1217	1316	1459
55°	1183	1339	1517
60°	1132	1369	1598
65°	1054	1412	1702
70°	932	1476	1852
75°	781	1579	1555
80°	624	1247	1294
85°	492	844	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	3.0
10°-20°	267.0	8.7
20°-30°	407.7	13.2
30°-40°	498.5	16.2
40°-50°	533.6	17.3
50°-60°	511.8	16.6
60°-70°	432.1	14.0
70°-80°	276.2	9.0
80°-90°	65.3	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°	767.5	24.9
0°-40°	1266.0	41.0
0°-60°	2311.4	74.9
0°-90°	3085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	980	973	976	975	973	93
15°	943	940	946	949	949	266
25°	876	875	888	891	893	404
35°	778	784	799	809	817	486
45°	653	664	686	718	740	504
55°	504	521	571	623	647	450
65°	331	363	443	506	534	327
75°	150	214	304	310	299	162
85°	32	53	55	53	50	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.0	978.0	978.0	978.0	978.0
2.5°	982.5	976.5	978.0	978.0	974.9
5°	979.5	973.4	976.5	974.9	973.4
7.5°	973.4	968.9	971.9	971.9	970.4
10°	965.8	961.3	964.3	965.8	965.8
12.5°	955.2	952.2	956.7	956.7	958.2
15°	943.0	940.0	946.1	949.1	949.1
17.5°	929.4	927.9	935.5	937.0	938.5
20°	914.2	912.7	921.8	921.8	924.8
22.5°	896.0	894.4	906.6	906.6	909.6
25°	876.2	874.7	888.4	891.4	892.9
27.5°	855.0	853.4	867.1	871.7	874.7
30°	830.7	830.7	845.9	851.9	856.5
32.5°	803.3	807.9	821.6	830.7	836.7
35°	777.5	783.6	798.8	809.4	817.0
37.5°	748.7	754.7	771.4	785.1	794.2
40°	718.3	725.9	745.6	760.8	774.5
42.5°	687.9	695.5	716.8	739.6	757.8
45°	653.0	663.6	686.4	718.3	739.6
47.5°	618.1	628.7	657.5	697.0	718.3
50°	581.6	593.8	628.7	674.3	697.0
52.5°	543.7	557.3	601.4	650.0	672.7
55°	504.2	520.9	571.0	622.6	646.9
57.5°	463.2	481.4	540.6	595.3	621.1
60°	420.6	443.4	508.7	566.4	593.8
62.5°	376.6	403.9	476.8	536.1	564.9
65°	331.1	362.9	443.4	505.7	534.5
67.5°	284.0	326.5	410.0	475.3	504.2
70°	236.9	287.0	375.1	441.9	470.8
72.5°	192.9	250.6	340.2	402.4	408.5
75°	150.3	214.1	303.7	309.8	299.2
77.5°	112.4	177.7	250.6	223.2	221.7
80°	80.5	142.7	161.0	165.5	167.0
82.5°	53.2	107.8	104.8	107.8	106.3
85°	31.9	53.2	54.7	53.2	50.1
87.5°	15.2	19.7	15.2	13.7	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)