

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: P263904

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263904
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-LD5-50SE-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2833.0 lumens
Efficiency: N/A
Efficacy: 72.0 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

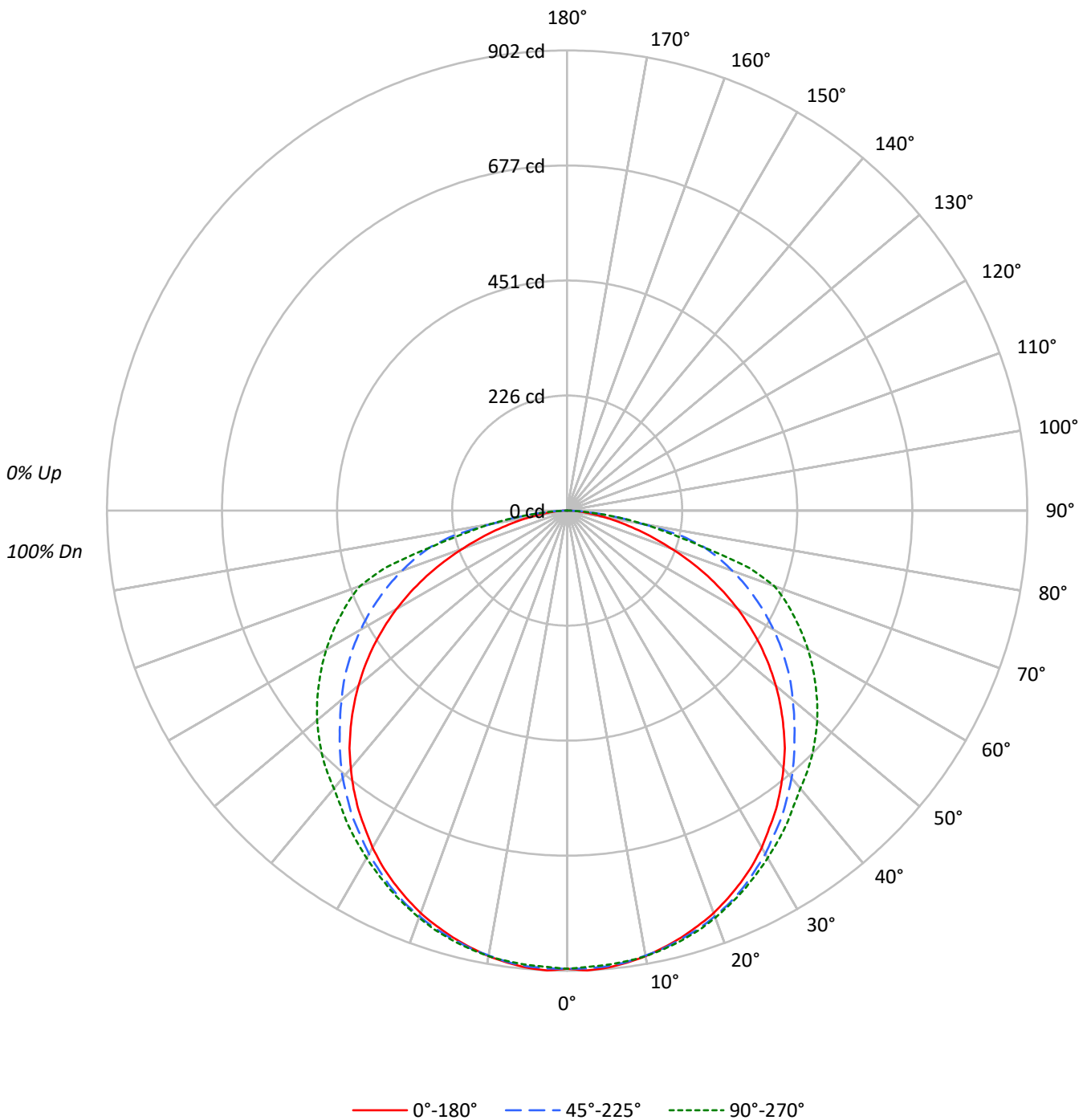
Input Watts (W): 39.339
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1208	1208	1208
5°	1215	1211	1207
10°	1212	1210	1212
15°	1206	1210	1214
20°	1202	1212	1216
25°	1195	1211	1217
30°	1185	1207	1222
35°	1173	1205	1232
40°	1159	1203	1249
45°	1141	1199	1292
50°	1118	1208	1340
55°	1086	1230	1394
60°	1040	1257	1467
65°	968	1296	1563
70°	856	1355	1701
75°	718	1450	1428
80°	573	1145	1189
85°	452	775	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.0
10°-20°	245.1	8.7
20°-30°	374.4	13.2
30°-40°	457.8	16.2
40°-50°	490.0	17.3
50°-60°	470.0	16.6
60°-70°	396.8	14.0
70°-80°	253.6	9.0
80°-90°	60.0	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°	704.8	24.9
0°-40°	1162.5	41.0
0°-60°	2122.5	74.9
0°-90°	2833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	900	894	897	895	894	85
15°	866	863	869	872	872	245
25°	805	803	816	819	820	371
35°	714	720	734	743	750	446
45°	600	609	630	660	679	463
55°	463	478	524	572	594	413
65°	304	333	407	464	491	300
75°	138	197	279	284	275	149
85°	29	49	50	49	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.1	898.1	898.1	898.1	898.1
2.5°	902.3	896.7	898.1	898.1	895.3
5°	899.5	893.9	896.7	895.3	893.9
7.5°	893.9	889.7	892.5	892.5	891.1
10°	886.9	882.7	885.5	886.9	886.9
12.5°	877.2	874.4	878.6	878.6	880.0
15°	866.0	863.2	868.8	871.6	871.6
17.5°	853.5	852.1	859.0	860.4	861.8
20°	839.5	838.1	846.5	846.5	849.3
22.5°	822.8	821.4	832.5	832.5	835.3
25°	804.7	803.3	815.8	818.6	820.0
27.5°	785.1	783.7	796.3	800.5	803.3
30°	762.8	762.8	776.8	782.3	786.5
32.5°	737.7	741.9	754.4	762.8	768.4
35°	714.0	719.6	733.5	743.3	750.3
37.5°	687.5	693.1	708.4	721.0	729.3
40°	659.6	666.6	684.7	698.7	711.2
42.5°	631.7	638.7	658.2	679.1	695.9
45°	599.7	609.4	630.3	659.6	679.1
47.5°	567.6	577.3	603.8	640.1	659.6
50°	534.1	545.3	577.3	619.2	640.1
52.5°	499.2	511.8	552.2	596.9	617.8
55°	463.0	478.3	524.3	571.8	594.1
57.5°	425.3	442.1	496.5	546.7	570.4
60°	386.3	407.2	467.2	520.2	545.3
62.5°	345.8	370.9	437.9	492.3	518.8
65°	304.0	333.3	407.2	464.4	490.9
67.5°	260.8	299.8	376.5	436.5	463.0
70°	217.5	263.6	344.5	405.8	432.3
72.5°	177.1	230.1	312.4	369.6	375.1
75°	138.1	196.6	278.9	284.5	274.7
77.5°	103.2	163.2	230.1	205.0	203.6
80°	73.9	131.1	147.8	152.0	153.4
82.5°	48.8	99.0	96.2	99.0	97.6
85°	29.3	48.8	50.2	48.8	46.0
87.5°	13.9	18.1	13.9	12.6	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)