

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: P260849

Luminaire Tested: **24CZ-LD5-35-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3108.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

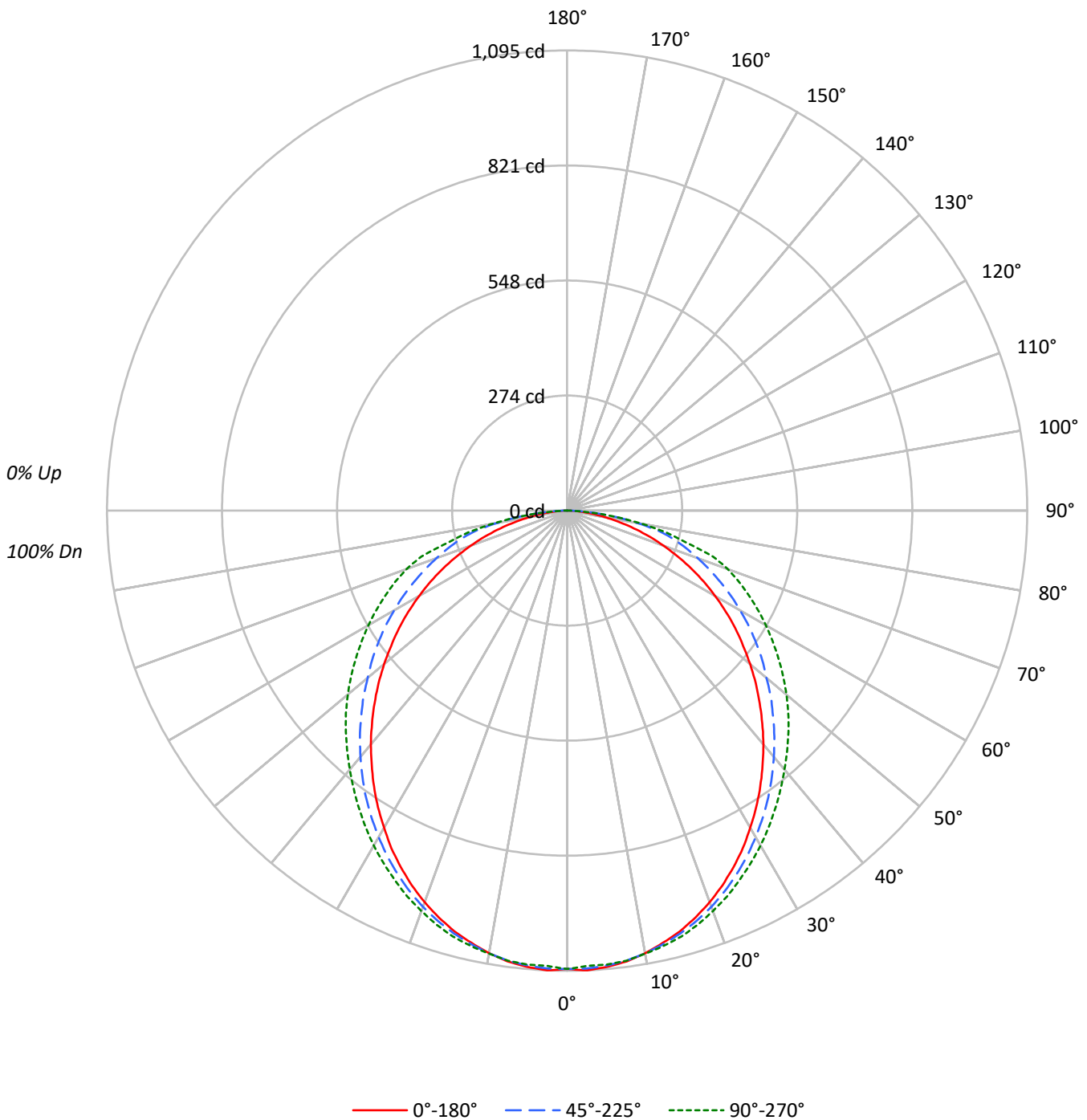
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1468	1468	1468
5°	1472	1467	1465
10°	1461	1461	1463
15°	1444	1451	1461
20°	1420	1437	1452
25°	1390	1417	1441
30°	1354	1394	1430
35°	1316	1370	1419
40°	1277	1344	1413
45°	1233	1318	1417
50°	1190	1296	1426
55°	1146	1288	1440
60°	1094	1280	1469
65°	1037	1280	1518
70°	959	1302	1599
75°	857	1361	1521
80°	717	1303	1393
85°	542	1002	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.3
10°-20°	293.4	9.4
20°-30°	438.5	14.1
30°-40°	520.3	16.7
40°-50°	535.5	17.2
50°-60°	491.2	15.8
60°-70°	397.2	12.8
70°-80°	257.8	8.3
80°-90°	71.1	2.3
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°	835.0	26.9
0°-40°	1355.2	43.6
0°-60°	2382.0	76.6
0°-90°	3108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1090	1082	1086	1085	1084	103
15°	1036	1032	1042	1046	1049	292
25°	936	938	954	963	970	431
35°	801	808	834	852	864	501
45°	648	659	693	726	745	500
55°	488	503	549	594	614	436
65°	326	345	402	456	477	322
75°	165	196	262	293	293	175
85°	35	60	65	63	62	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.7	1090.7	1090.7	1090.7	1090.7
2.5°	1095.0	1086.5	1090.7	1089.7	1084.4
5°	1089.7	1082.2	1086.5	1085.4	1084.4
7.5°	1082.2	1074.8	1080.1	1079.0	1080.1
10°	1069.5	1063.1	1069.5	1070.5	1070.5
12.5°	1053.5	1048.2	1056.7	1058.8	1061.0
15°	1036.5	1032.2	1041.8	1046.1	1049.2
17.5°	1015.2	1012.0	1023.7	1029.0	1033.3
20°	991.8	990.7	1003.5	1008.8	1014.1
22.5°	965.2	965.2	980.1	986.5	993.9
25°	936.4	937.5	954.5	963.0	970.5
27.5°	905.6	906.6	926.9	937.5	946.0
30°	871.5	875.8	897.1	910.9	920.5
32.5°	837.5	842.8	866.2	882.2	892.8
35°	801.3	807.7	834.3	852.4	864.1
37.5°	764.1	771.5	800.2	820.5	834.3
40°	726.8	735.3	765.1	788.5	804.5
42.5°	687.4	697.0	730.0	757.7	774.7
45°	648.1	658.7	692.8	725.7	744.9
47.5°	608.7	621.5	657.6	693.8	714.0
50°	568.3	581.0	619.3	660.8	681.1
52.5°	527.8	542.7	585.3	627.8	648.1
55°	488.4	503.3	549.1	593.8	614.0
57.5°	448.0	462.9	512.9	559.7	580.0
60°	406.5	423.5	475.7	523.6	545.9
62.5°	366.1	384.2	439.5	490.6	511.9
65°	325.6	344.8	402.2	455.5	476.7
67.5°	284.1	306.5	366.1	420.3	442.7
70°	243.7	268.2	330.9	385.2	406.5
72.5°	204.3	230.9	295.8	351.2	363.9
75°	164.9	195.8	261.8	292.6	292.6
77.5°	127.7	161.7	223.5	235.2	241.6
80°	92.6	129.8	168.1	182.0	179.8
82.5°	61.7	99.0	120.2	120.2	117.1
85°	35.1	59.6	64.9	62.8	61.7
87.5°	14.9	22.3	20.2	16.0	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)