

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: P263265

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3469.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

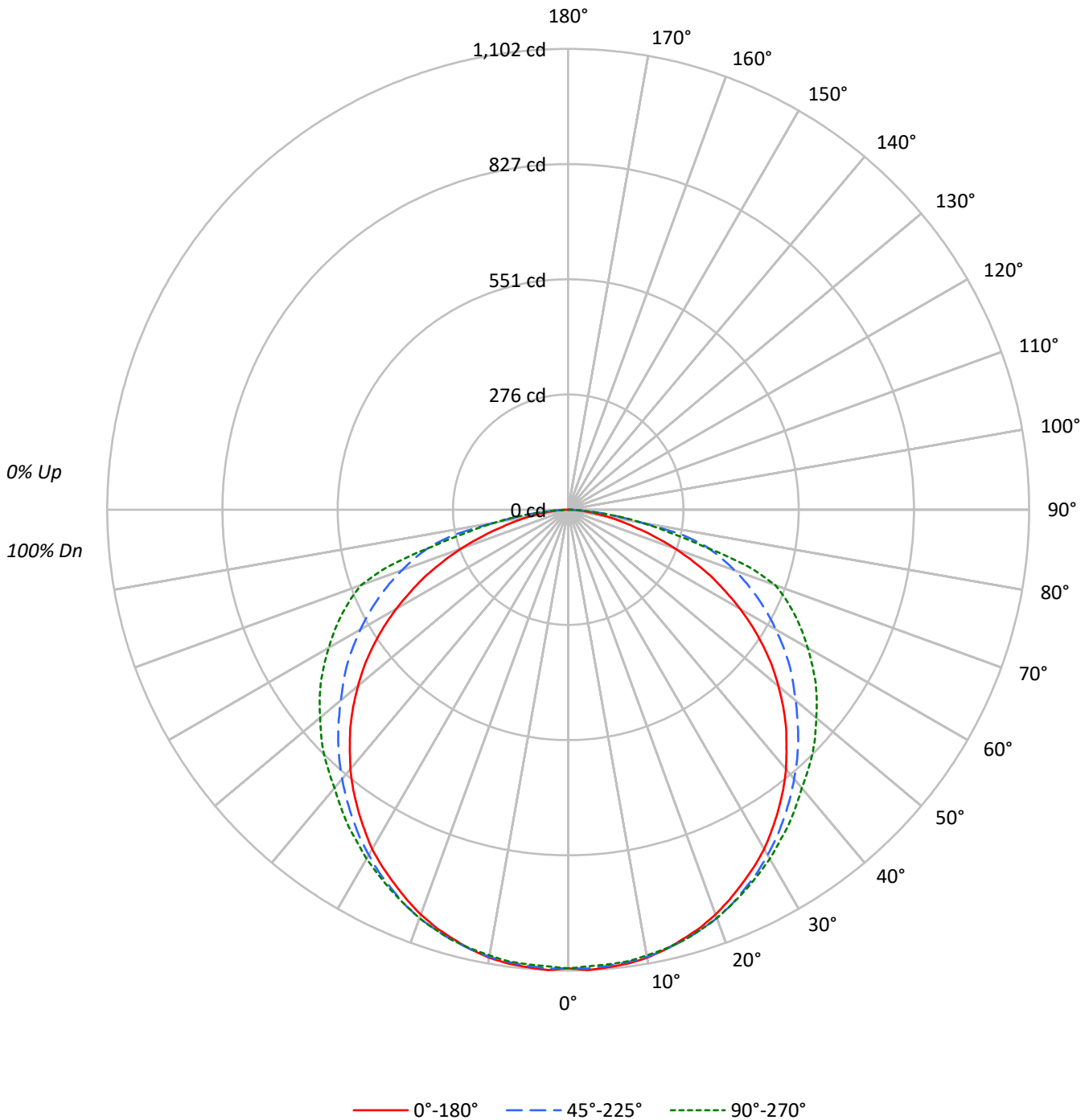
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1475	1475	1475
5°	1484	1479	1474
10°	1486	1484	1479
15°	1480	1485	1485
20°	1475	1488	1488
25°	1463	1484	1490
30°	1456	1481	1498
35°	1439	1477	1510
40°	1423	1476	1526
45°	1401	1480	1572
50°	1373	1485	1620
55°	1337	1513	1694
60°	1278	1543	1779
65°	1198	1592	1905
70°	1072	1664	2072
75°	885	1779	1714
80°	722	1375	1389
85°	580	912	857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.0
10°-20°	300.5	8.7
20°-30°	459.3	13.2
30°-40°	561.8	16.2
40°-50°	601.1	17.3
50°-60°	575.6	16.6
60°-70°	486.9	14.0
70°-80°	308.6	8.9
80°-90°	71.0	2.0
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°	864.0	24.9
0°-40°	1425.8	41.1
0°-60°	2602.4	75.0
0°-90°	3469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1098	1093	1095	1093	1091	105
15°	1063	1061	1066	1066	1066	300
25°	986	986	1000	1003	1003	455
35°	876	882	900	912	919	548
45°	736	749	778	810	826	567
55°	570	588	645	699	722	508
65°	376	412	500	568	598	371
75°	170	240	342	340	330	185
85°	38	57	59	54	56	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1102.0	1096.6	1098.4	1096.6	1093.0
5°	1098.4	1093.0	1094.8	1093.0	1091.2
7.5°	1094.8	1089.4	1091.2	1089.4	1089.4
10°	1087.7	1082.3	1085.9	1084.1	1082.3
12.5°	1076.9	1073.3	1076.9	1075.1	1075.1
15°	1062.6	1060.8	1066.2	1066.2	1066.2
17.5°	1048.2	1046.4	1053.6	1053.6	1053.6
20°	1030.3	1028.5	1039.3	1039.3	1039.3
22.5°	1008.8	1007.0	1021.4	1021.4	1021.4
25°	985.5	985.5	999.9	1003.4	1003.4
27.5°	962.2	962.2	978.4	983.7	983.7
30°	937.1	937.1	953.3	960.4	964.0
32.5°	906.7	910.3	928.2	937.1	940.7
35°	876.2	881.6	899.5	912.1	919.2
37.5°	844.0	849.3	870.8	885.2	894.1
40°	809.9	817.1	840.4	858.3	869.1
42.5°	772.3	783.0	809.9	833.2	847.5
45°	736.5	749.0	777.7	809.9	826.0
47.5°	697.0	711.4	743.6	784.8	801.0
50°	655.8	670.2	709.6	756.2	774.1
52.5°	614.6	630.7	677.3	727.5	749.0
55°	569.8	587.7	645.1	698.8	722.1
57.5°	523.2	544.7	609.2	666.6	691.7
60°	474.8	501.7	573.4	634.3	661.2
62.5°	424.7	456.9	537.6	602.1	630.7
65°	376.3	412.1	499.9	568.0	598.5
67.5°	324.3	369.1	462.3	535.8	564.4
70°	272.4	324.3	422.9	498.1	526.8
72.5°	220.4	283.1	383.5	451.5	451.5
75°	170.2	240.1	342.2	340.5	329.7
77.5°	129.0	200.7	281.3	240.1	241.9
80°	93.2	161.3	177.4	177.4	179.2
82.5°	62.7	123.6	114.7	112.9	116.5
85°	37.6	57.3	59.1	53.8	55.5
87.5°	17.9	19.7	16.1	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)