

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: P263772

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263772
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-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

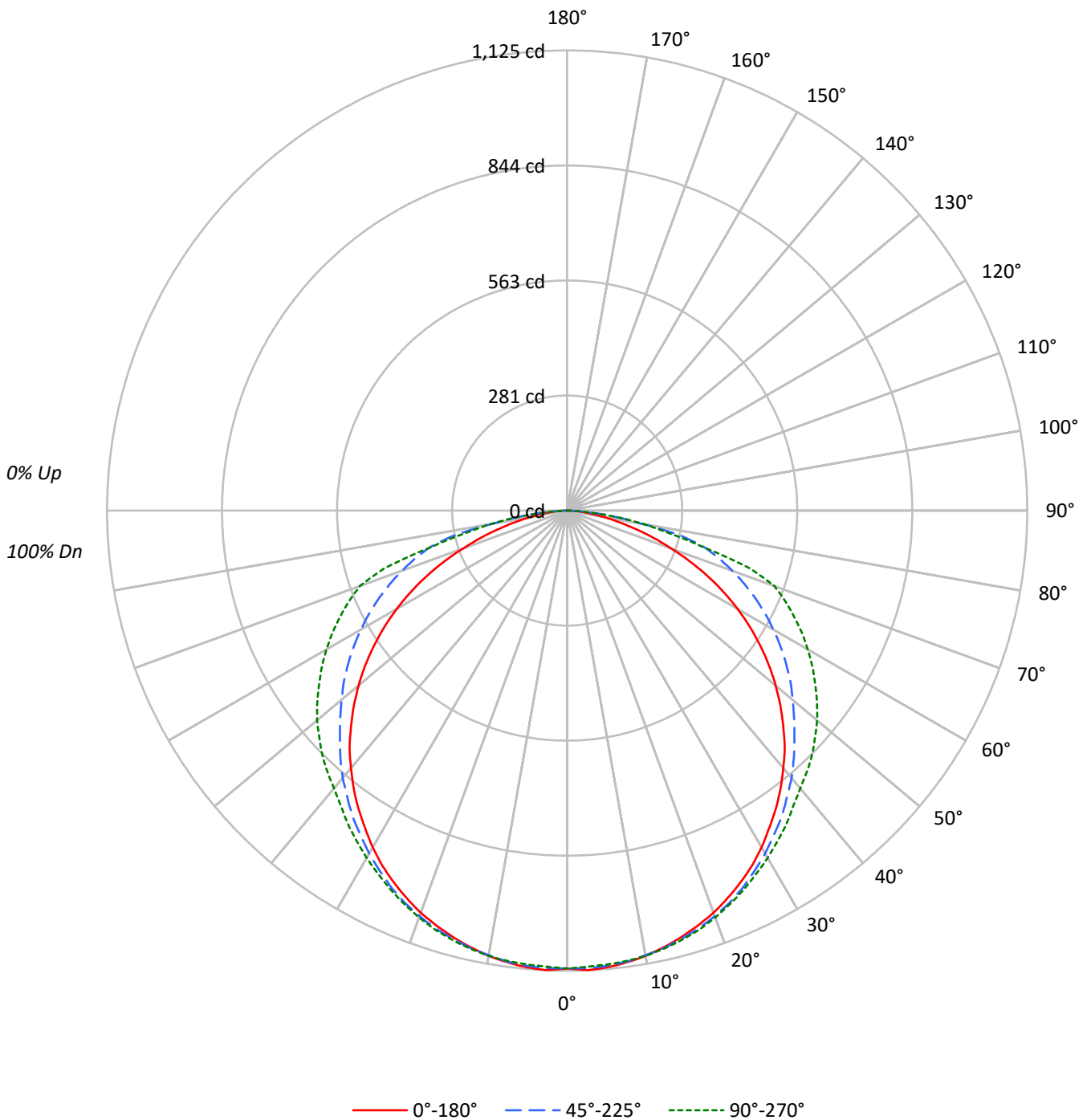
Input Watts (W): 40.455
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1506	1506	1506
5°	1514	1509	1505
10°	1510	1508	1510
15°	1504	1508	1513
20°	1498	1511	1516
25°	1489	1510	1517
30°	1477	1504	1523
35°	1462	1502	1536
40°	1444	1499	1557
45°	1422	1495	1611
50°	1393	1506	1670
55°	1354	1533	1737
60°	1296	1567	1829
65°	1206	1616	1948
70°	1066	1689	2120
75°	895	1807	1780
80°	714	1427	1481
85°	563	966	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.0
10°-20°	305.5	8.7
20°-30°	466.7	13.2
30°-40°	570.6	16.2
40°-50°	610.7	17.3
50°-60°	585.8	16.6
60°-70°	494.6	14.0
70°-80°	316.1	9.0
80°-90°	74.8	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°	878.4	24.9
0°-40°	1449.0	41.0
0°-60°	2645.5	74.9
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1121	1114	1118	1116	1114	106
15°	1079	1076	1083	1086	1086	305
25°	1003	1001	1017	1020	1022	462
35°	890	897	914	926	935	556
45°	747	760	786	822	846	576
55°	577	596	654	713	740	515
65°	379	415	508	579	612	374
75°	172	245	348	355	342	185
85°	36	61	63	61	57	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.4	1119.4	1119.4	1119.4	1119.4
2.5°	1124.6	1117.6	1119.4	1119.4	1115.9
5°	1121.1	1114.1	1117.6	1115.9	1114.1
7.5°	1114.1	1108.9	1112.4	1112.4	1110.7
10°	1105.5	1100.2	1103.7	1105.5	1105.5
12.5°	1093.3	1089.8	1095.0	1095.0	1096.8
15°	1079.4	1075.9	1082.9	1086.3	1086.3
17.5°	1063.7	1062.0	1070.7	1072.4	1074.2
20°	1046.4	1044.6	1055.0	1055.0	1058.5
22.5°	1025.5	1023.8	1037.7	1037.7	1041.1
25°	1002.9	1001.2	1016.8	1020.3	1022.0
27.5°	978.6	976.8	992.5	997.7	1001.2
30°	950.8	950.8	968.1	975.1	980.3
32.5°	919.5	924.7	940.3	950.8	957.7
35°	889.9	896.9	914.3	926.4	935.1
37.5°	856.9	863.9	883.0	898.6	909.0
40°	822.1	830.8	853.4	870.8	886.4
42.5°	787.4	796.1	820.4	846.5	867.3
45°	747.4	759.6	785.6	822.1	846.5
47.5°	707.4	719.6	752.6	797.8	822.1
50°	665.7	679.6	719.6	771.7	797.8
52.5°	622.3	637.9	688.3	743.9	770.0
55°	577.1	596.2	653.5	712.6	740.4
57.5°	530.1	551.0	618.8	681.3	710.9
60°	481.5	507.5	582.3	648.3	679.6
62.5°	431.1	462.3	545.8	613.6	646.6
65°	378.9	415.4	507.5	578.8	611.8
67.5°	325.0	373.7	469.3	544.0	577.1
70°	271.1	328.5	429.3	505.8	538.8
72.5°	220.7	286.8	389.3	460.6	467.6
75°	172.1	245.1	347.6	354.6	342.4
77.5°	128.6	203.4	286.8	255.5	253.8
80°	92.1	163.4	184.2	189.5	191.2
82.5°	60.8	123.4	119.9	123.4	121.7
85°	36.5	60.8	62.6	60.8	57.4
87.5°	17.4	22.6	17.4	15.6	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)