

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: P263773

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263773
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3579.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

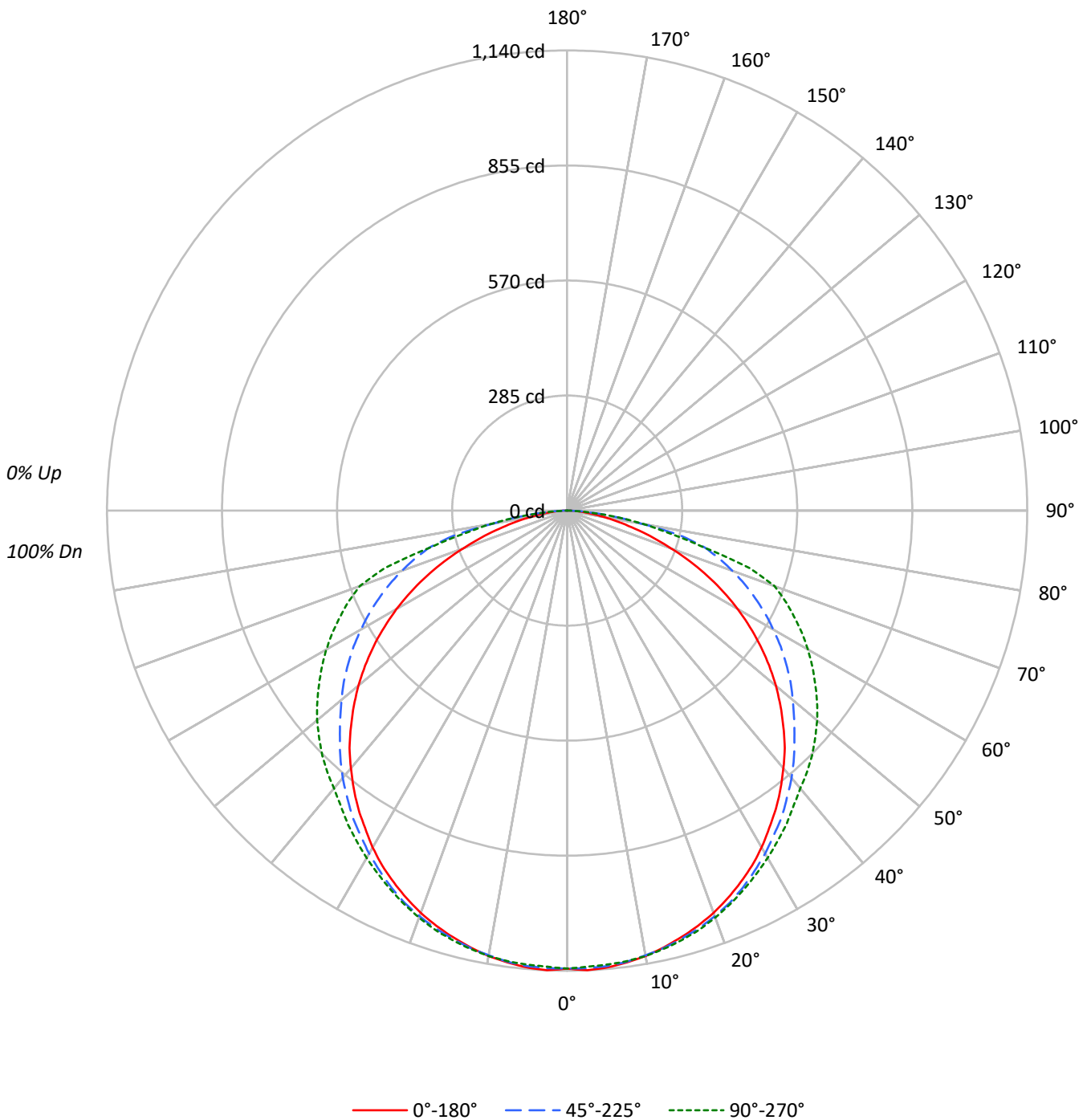
Input Watts (W): 40.641
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56					56			
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27					27			
9	55	41	33	27	53	41	32	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°	1527	1527	1527
5°	1535	1530	1525
10°	1531	1528	1531
15°	1524	1529	1534
20°	1519	1531	1536
25°	1509	1530	1538
30°	1497	1525	1544
35°	1482	1522	1557
40°	1464	1519	1578
45°	1442	1515	1633
50°	1412	1527	1693
55°	1372	1554	1761
60°	1313	1588	1854
65°	1223	1638	1974
70°	1081	1712	2148
75°	907	1832	1804
80°	724	1447	1502
85°	571	979	897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.0
10°-20°	309.7	8.7
20°-30°	473.0	13.2
30°-40°	578.3	16.2
40°-50°	619.0	17.3
50°-60°	593.8	16.6
60°-70°	501.3	14.0
70°-80°	320.4	9.0
80°-90°	75.8	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°	890.3	24.9
0°-40°	1468.7	41.0
0°-60°	2681.5	74.9
0°-90°	3579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1136	1129	1133	1131	1129	108
15°	1094	1090	1098	1101	1101	309
25°	1016	1015	1031	1034	1036	469
35°	902	909	927	939	948	564
45°	758	770	796	833	858	584
55°	585	604	662	722	750	522
65°	384	421	514	587	620	379
75°	174	248	352	359	347	188
85°	37	62	63	62	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1139.9	1132.8	1134.6	1134.6	1131.0
5°	1136.3	1129.3	1132.8	1131.0	1129.3
7.5°	1129.3	1124.0	1127.5	1127.5	1125.8
10°	1120.5	1115.2	1118.7	1120.5	1120.5
12.5°	1108.1	1104.6	1109.9	1109.9	1111.7
15°	1094.1	1090.5	1097.6	1101.1	1101.1
17.5°	1078.2	1076.4	1085.2	1087.0	1088.8
20°	1060.6	1058.8	1069.4	1069.4	1072.9
22.5°	1039.4	1037.7	1051.8	1051.8	1055.3
25°	1016.5	1014.8	1030.6	1034.2	1035.9
27.5°	991.9	990.1	1006.0	1011.2	1014.8
30°	963.7	963.7	981.3	988.3	993.6
32.5°	932.0	937.3	953.1	963.7	970.7
35°	902.0	909.1	926.7	939.0	947.8
37.5°	868.5	875.6	895.0	910.8	921.4
40°	833.3	842.1	865.0	882.6	898.5
42.5°	798.1	806.9	831.6	858.0	879.1
45°	757.6	769.9	796.3	833.3	858.0
47.5°	717.0	729.4	762.8	808.6	833.3
50°	674.8	688.8	729.4	782.2	808.6
52.5°	630.7	646.6	697.7	754.0	780.5
55°	584.9	604.3	662.4	722.3	750.5
57.5°	537.3	558.5	627.2	690.6	720.6
60°	488.0	514.4	590.2	657.1	688.8
62.5°	436.9	468.6	553.2	621.9	655.4
65°	384.1	421.1	514.4	586.7	620.1
67.5°	329.4	378.8	475.7	551.4	584.9
70°	274.8	333.0	435.2	512.7	546.1
72.5°	223.7	290.7	394.6	466.9	473.9
75°	174.4	248.4	352.4	359.4	347.1
77.5°	130.4	206.1	290.7	259.0	257.2
80°	93.4	165.6	186.7	192.0	193.8
82.5°	61.7	125.1	121.6	125.1	123.3
85°	37.0	61.7	63.4	61.7	58.1
87.5°	17.6	22.9	17.6	15.9	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)