

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: P263426

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263426
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-LD5-65-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

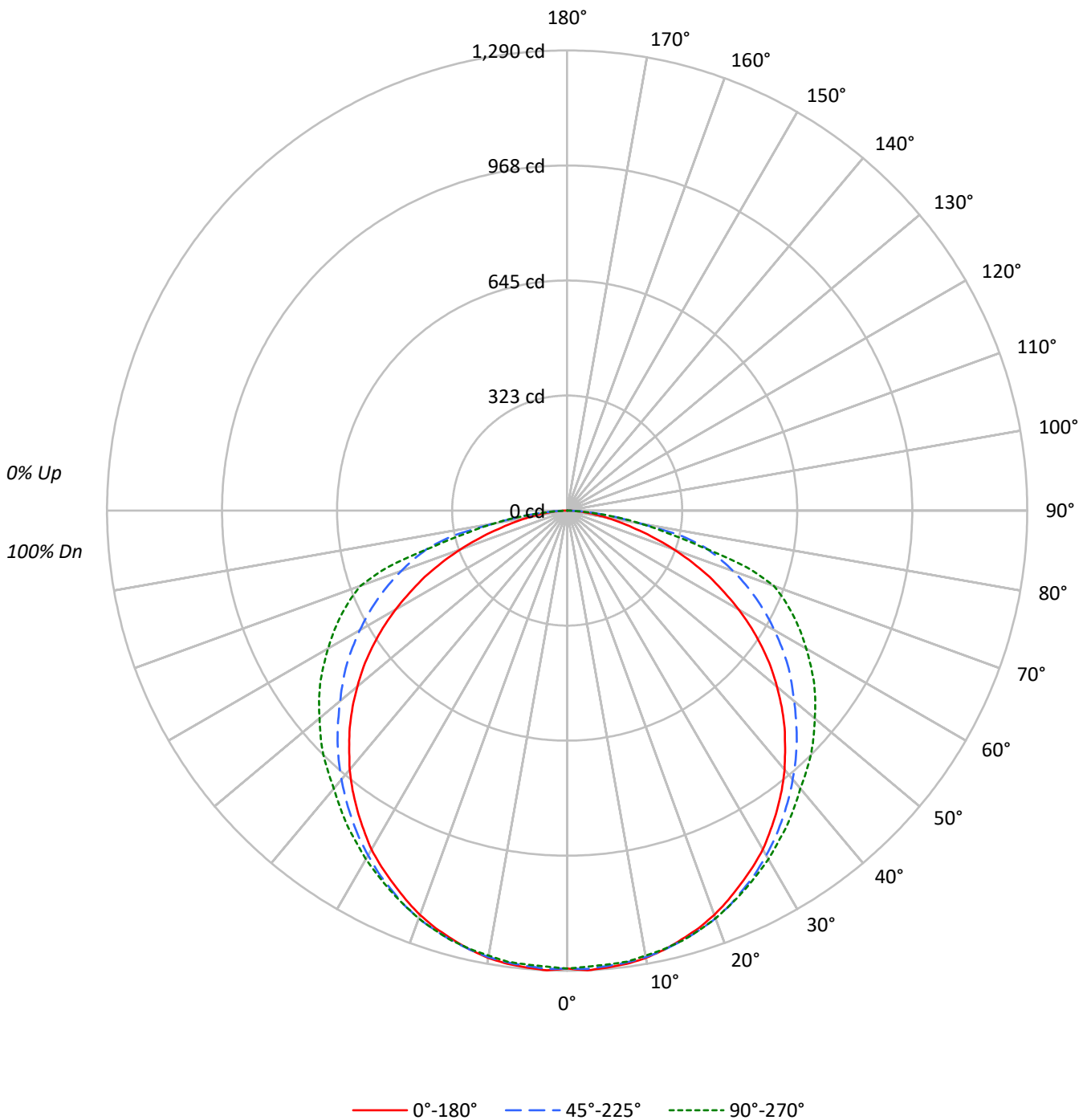
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	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°	1727	1727	1727
5°	1737	1731	1725
10°	1740	1737	1731
15°	1733	1739	1739
20°	1727	1742	1742
25°	1713	1738	1744
30°	1704	1734	1753
35°	1685	1730	1768
40°	1665	1728	1787
45°	1640	1732	1840
50°	1607	1739	1897
55°	1565	1772	1983
60°	1496	1806	2083
65°	1402	1863	2230
70°	1254	1947	2426
75°	1036	2083	2007
80°	845	1609	1626
85°	681	1068	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	3.0
10°-20°	351.8	8.7
20°-30°	537.7	13.2
30°-40°	657.6	16.2
40°-50°	703.7	17.3
50°-60°	673.8	16.6
60°-70°	570.0	14.0
70°-80°	361.3	8.9
80°-90°	83.1	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°	1011.4	24.9
0°-40°	1669.1	41.1
0°-60°	3046.6	75.0
0°-90°	4061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1286	1280	1282	1280	1278	122
15°	1244	1242	1248	1248	1248	351
25°	1154	1154	1170	1175	1175	532
35°	1026	1032	1053	1068	1076	642
45°	862	877	910	948	967	664
55°	667	688	755	818	845	595
65°	440	482	585	665	701	434
75°	199	281	401	399	386	217
85°	44	67	69	63	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.8	1283.8	1283.8	1283.8	1283.8
2.5°	1290.1	1283.8	1285.9	1283.8	1279.6
5°	1285.9	1279.6	1281.7	1279.6	1277.5
7.5°	1281.7	1275.4	1277.5	1275.4	1275.4
10°	1273.3	1267.0	1271.2	1269.1	1267.0
12.5°	1260.7	1256.5	1260.7	1258.6	1258.6
15°	1243.9	1241.8	1248.1	1248.1	1248.1
17.5°	1227.1	1225.0	1233.4	1233.4	1233.4
20°	1206.1	1204.0	1216.6	1216.6	1216.6
22.5°	1181.0	1178.9	1195.7	1195.7	1195.7
25°	1153.7	1153.7	1170.5	1174.7	1174.7
27.5°	1126.4	1126.4	1145.3	1151.6	1151.6
30°	1097.1	1097.1	1115.9	1124.3	1128.5
32.5°	1061.4	1065.6	1086.6	1097.1	1101.3
35°	1025.7	1032.0	1053.0	1067.7	1076.1
37.5°	988.0	994.3	1019.5	1036.2	1046.7
40°	948.1	956.5	983.8	1004.8	1017.4
42.5°	904.1	916.7	948.1	975.4	992.2
45°	862.1	876.8	910.4	948.1	967.0
47.5°	816.0	832.8	870.5	918.8	937.6
50°	767.7	784.5	830.7	885.2	906.2
52.5°	719.5	738.4	792.9	851.6	876.8
55°	667.1	688.0	755.2	818.1	845.4
57.5°	612.5	637.7	713.2	780.3	809.7
60°	555.9	587.3	671.2	742.6	774.0
62.5°	497.1	534.9	629.3	704.8	738.4
65°	440.5	482.5	585.2	665.0	700.6
67.5°	379.7	432.1	541.2	627.2	660.8
70°	318.8	379.7	495.0	583.1	616.7
72.5°	258.0	331.4	448.9	528.6	528.6
75°	199.3	281.1	400.7	398.6	386.0
77.5°	151.0	234.9	329.3	281.1	283.2
80°	109.1	188.8	207.7	207.7	209.8
82.5°	73.4	144.7	134.2	132.2	136.3
85°	44.1	67.1	69.2	62.9	65.0
87.5°	21.0	23.1	18.9	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)