

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: P263285

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263285
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3970.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

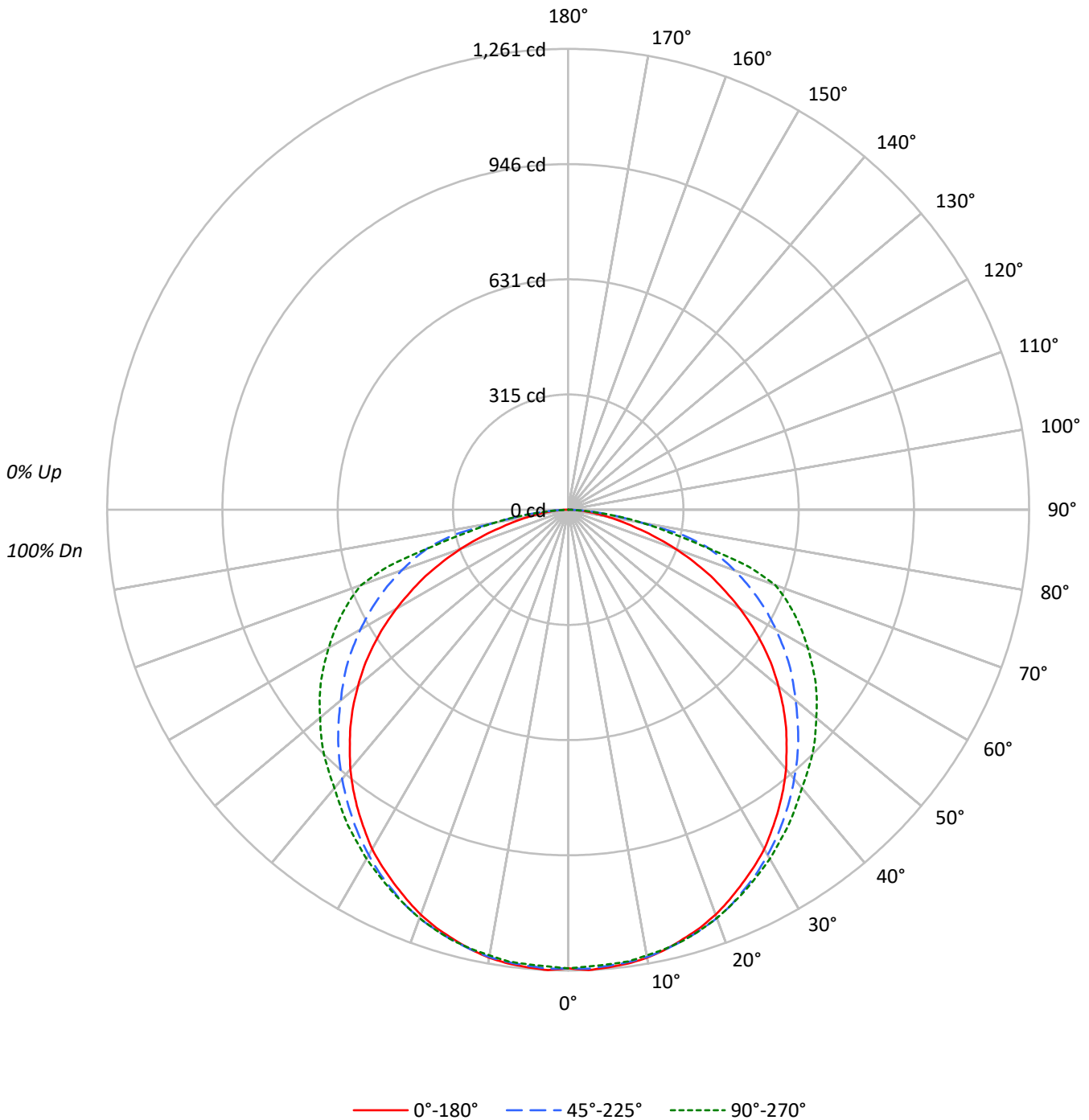
Input Watts (W): 48.918
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1689	1689	1689
5°	1698	1692	1687
10°	1701	1698	1692
15°	1694	1700	1700
20°	1688	1703	1703
25°	1674	1699	1705
30°	1666	1695	1714
35°	1647	1691	1728
40°	1628	1689	1747
45°	1604	1694	1799
50°	1571	1700	1854
55°	1530	1732	1939
60°	1462	1766	2036
65°	1371	1821	2181
70°	1226	1904	2372
75°	1013	2036	1961
80°	826	1573	1589
85°	665	1045	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.0
10°-20°	343.9	8.7
20°-30°	525.7	13.2
30°-40°	642.9	16.2
40°-50°	687.9	17.3
50°-60°	658.7	16.6
60°-70°	557.2	14.0
70°-80°	353.2	8.9
80°-90°	81.3	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°	988.8	24.9
0°-40°	1631.7	41.1
0°-60°	2978.3	75.0
0°-90°	3970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1257	1251	1253	1251	1249	120
15°	1216	1214	1220	1220	1220	343
25°	1128	1128	1144	1148	1148	520
35°	1003	1009	1029	1044	1052	627
45°	843	857	890	927	945	649
55°	652	673	738	800	826	582
65°	431	472	572	650	685	424
75°	195	275	392	390	377	212
85°	43	66	68	62	64	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.0	1255.0	1255.0	1255.0	1255.0
2.5°	1261.1	1255.0	1257.0	1255.0	1250.9
5°	1257.0	1250.9	1252.9	1250.9	1248.8
7.5°	1252.9	1246.8	1248.8	1246.8	1246.8
10°	1244.7	1238.6	1242.7	1240.6	1238.6
12.5°	1232.4	1228.3	1232.4	1230.4	1230.4
15°	1216.0	1214.0	1220.1	1220.1	1220.1
17.5°	1199.6	1197.6	1205.8	1205.8	1205.8
20°	1179.1	1177.1	1189.4	1189.4	1189.4
22.5°	1154.5	1152.5	1168.9	1168.9	1168.9
25°	1127.9	1127.9	1144.3	1148.4	1148.4
27.5°	1101.2	1101.2	1119.6	1125.8	1125.8
30°	1072.5	1072.5	1090.9	1099.1	1103.2
32.5°	1037.6	1041.7	1062.2	1072.5	1076.6
35°	1002.8	1008.9	1029.4	1043.8	1052.0
37.5°	965.9	972.0	996.6	1013.0	1023.3
40°	926.9	935.1	961.7	982.3	994.6
42.5°	883.8	896.1	926.9	953.5	970.0
45°	842.8	857.2	890.0	926.9	945.3
47.5°	797.7	814.1	851.0	898.2	916.6
50°	750.5	766.9	812.1	865.4	885.9
52.5°	703.4	721.8	775.1	832.6	857.2
55°	652.1	672.6	738.2	799.7	826.4
57.5°	598.8	623.4	697.2	762.8	791.5
60°	543.4	574.2	656.2	725.9	756.7
62.5°	486.0	522.9	615.2	689.0	721.8
65°	430.6	471.6	572.1	650.1	684.9
67.5°	371.2	422.4	529.1	613.1	646.0
70°	311.7	371.2	484.0	570.1	602.9
72.5°	252.2	324.0	438.8	516.8	516.8
75°	194.8	274.8	391.7	389.6	377.3
77.5°	147.6	229.7	322.0	274.8	276.8
80°	106.6	184.6	203.0	203.0	205.1
82.5°	71.8	141.5	131.2	129.2	133.3
85°	43.1	65.6	67.7	61.5	63.6
87.5°	20.5	22.6	18.5	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)