

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: P263183

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263183
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-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3677.8 lumens
Efficiency: N/A
Efficacy: 73.8 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

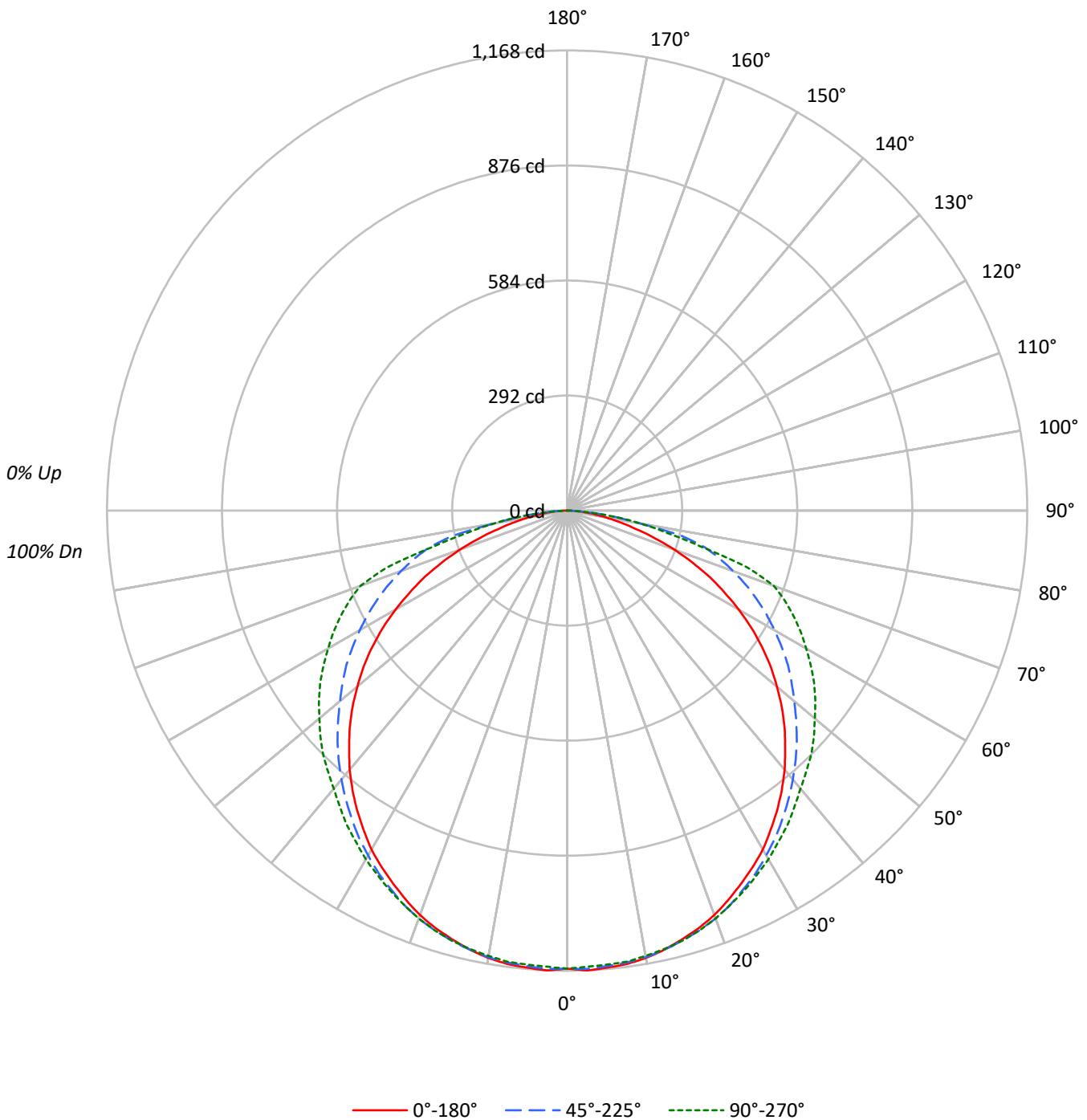
Input Watts (W): 49.847442
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1564	1564	1564
5°	1573	1568	1563
10°	1575	1573	1568
15°	1569	1574	1574
20°	1564	1578	1578
25°	1551	1574	1579
30°	1544	1570	1588
35°	1526	1566	1601
40°	1508	1565	1618
45°	1486	1569	1666
50°	1455	1575	1718
55°	1417	1604	1796
60°	1355	1636	1886
65°	1270	1687	2020
70°	1136	1764	2197
75°	938	1886	1817
80°	766	1457	1472
85°	616	968	909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.0
10°-20°	318.6	8.7
20°-30°	486.9	13.2
30°-40°	595.6	16.2
40°-50°	637.3	17.3
50°-60°	610.2	16.6
60°-70°	516.2	14.0
70°-80°	327.2	8.9
80°-90°	75.3	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°	916.0	24.9
0°-40°	1511.6	41.1
0°-60°	2759.1	75.0
0°-90°	3677.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1164	1159	1161	1159	1157	111
15°	1126	1125	1130	1130	1130	318
25°	1045	1045	1060	1064	1064	482
35°	929	935	954	967	975	581
45°	781	794	824	859	876	602
55°	604	623	684	741	766	539
65°	399	437	530	602	634	393
75°	180	255	363	361	350	196
85°	40	61	63	57	59	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.6	1162.6	1162.6	1162.6	1162.6
2.5°	1168.3	1162.6	1164.5	1162.6	1158.8
5°	1164.5	1158.8	1160.7	1158.8	1156.9
7.5°	1160.7	1155.0	1156.9	1155.0	1155.0
10°	1153.1	1147.4	1151.2	1149.3	1147.4
12.5°	1141.7	1137.9	1141.7	1139.8	1139.8
15°	1126.5	1124.6	1130.3	1130.3	1130.3
17.5°	1111.3	1109.4	1117.0	1117.0	1117.0
20°	1092.3	1090.4	1101.8	1101.8	1101.8
22.5°	1069.5	1067.6	1082.8	1082.8	1082.8
25°	1044.8	1044.8	1060.0	1063.8	1063.8
27.5°	1020.1	1020.1	1037.2	1042.9	1042.9
30°	993.5	993.5	1010.6	1018.2	1022.0
32.5°	961.3	965.1	984.1	993.5	997.3
35°	929.0	934.7	953.7	967.0	974.6
37.5°	894.8	900.5	923.3	938.5	948.0
40°	858.7	866.3	891.0	910.0	921.4
42.5°	818.8	830.2	858.7	883.4	898.6
45°	780.8	794.1	824.5	858.7	875.8
47.5°	739.0	754.2	788.4	832.1	849.2
50°	695.3	710.5	752.3	801.7	820.7
52.5°	651.6	668.7	718.1	771.3	794.1
55°	604.1	623.1	683.9	740.9	765.6
57.5°	554.7	577.5	645.9	706.7	733.3
60°	503.4	531.9	607.9	672.5	701.0
62.5°	450.2	484.4	569.9	638.3	668.7
65°	398.9	436.9	530.0	602.2	634.5
67.5°	343.8	391.3	490.1	568.0	598.4
70°	288.8	343.8	448.3	528.1	558.5
72.5°	233.7	300.2	406.5	478.7	478.7
75°	180.5	254.6	362.8	360.9	349.5
77.5°	136.8	212.8	298.3	254.6	256.5
80°	98.8	171.0	188.1	188.1	190.0
82.5°	66.5	131.1	121.6	119.7	123.5
85°	39.9	60.8	62.7	57.0	58.9
87.5°	19.0	20.9	17.1	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)