

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: P263598

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263598
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-LD5-60-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.4 lumens
Efficiency: N/A
Efficacy: 79.0 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

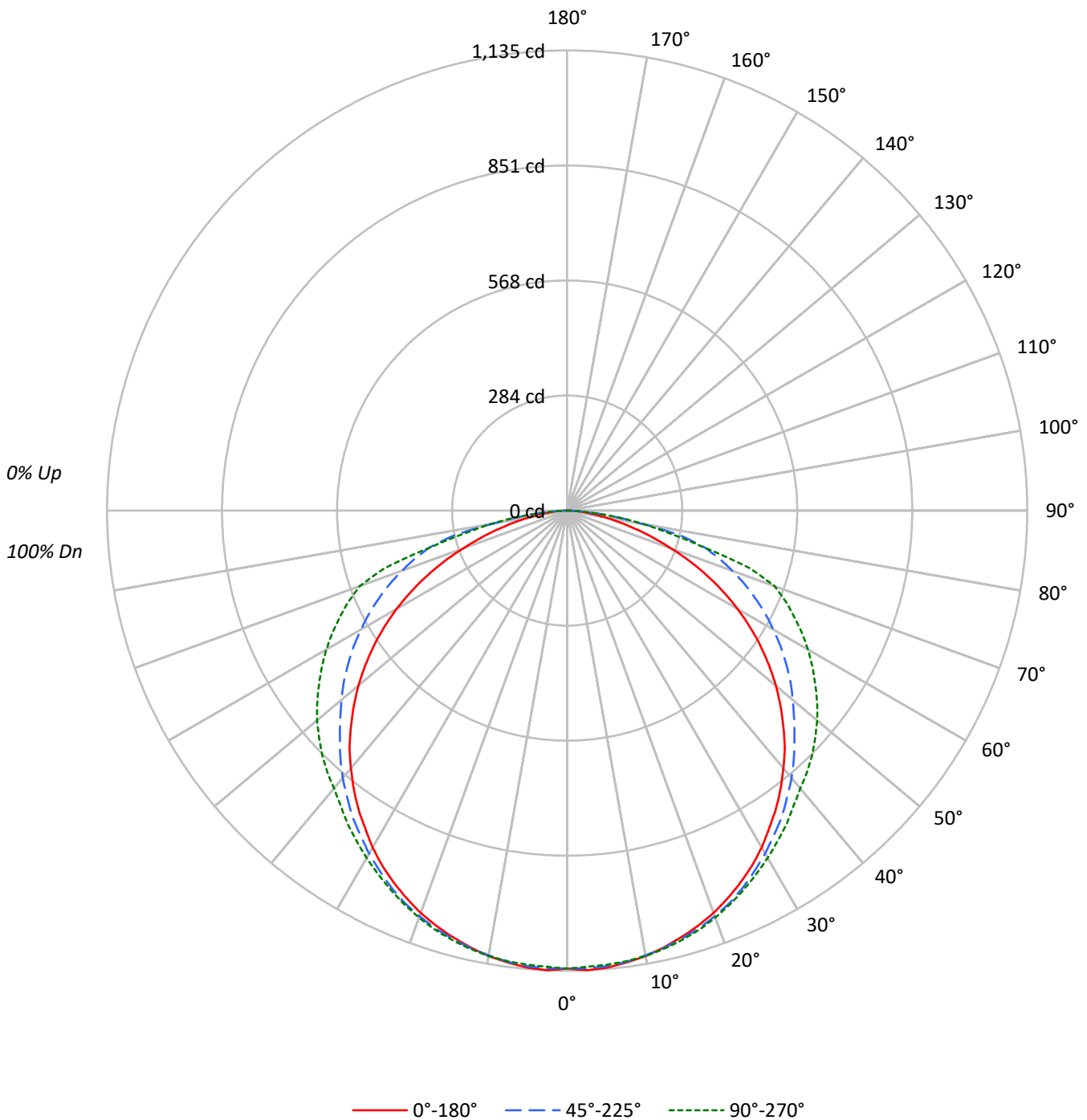
Input Watts (W): 45.109092
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1520	1520	1520
5°	1528	1523	1519
10°	1524	1522	1524
15°	1517	1522	1527
20°	1512	1524	1529
25°	1503	1523	1531
30°	1491	1518	1537
35°	1475	1515	1550
40°	1457	1513	1571
45°	1435	1509	1625
50°	1406	1520	1685
55°	1366	1547	1753
60°	1308	1581	1845
65°	1217	1631	1966
70°	1076	1705	2139
75°	903	1824	1797
80°	721	1440	1495
85°	568	974	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.0
10°-20°	308.3	8.7
20°-30°	471.0	13.2
30°-40°	575.8	16.2
40°-50°	616.3	17.3
50°-60°	591.2	16.6
60°-70°	499.2	14.0
70°-80°	319.0	9.0
80°-90°	75.4	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°	886.5	24.9
0°-40°	1462.3	41.0
0°-60°	2669.8	74.9
0°-90°	3563.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1131	1124	1128	1126	1124	107
15°	1089	1086	1093	1096	1096	308
25°	1012	1010	1026	1030	1031	466
35°	898	905	923	935	944	562
45°	754	766	793	830	854	582
55°	582	602	660	719	747	520
65°	382	419	512	584	617	377
75°	174	247	351	358	346	187
85°	37	61	63	61	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.6	1129.6	1129.6	1129.6	1129.6
2.5°	1134.9	1127.9	1129.6	1129.6	1126.1
5°	1131.4	1124.4	1127.9	1126.1	1124.4
7.5°	1124.4	1119.1	1122.6	1122.6	1120.9
10°	1115.6	1110.3	1113.8	1115.6	1115.6
12.5°	1103.3	1099.8	1105.1	1105.1	1106.8
15°	1089.3	1085.8	1092.8	1096.3	1096.3
17.5°	1073.5	1071.7	1080.5	1082.3	1084.0
20°	1056.0	1054.2	1064.7	1064.7	1068.2
22.5°	1034.9	1033.2	1047.2	1047.2	1050.7
25°	1012.1	1010.4	1026.1	1029.6	1031.4
27.5°	987.5	985.8	1001.6	1006.8	1010.4
30°	959.5	959.5	977.0	984.0	989.3
32.5°	927.9	933.2	949.0	959.5	966.5
35°	898.1	905.1	922.6	934.9	943.7
37.5°	864.8	871.8	891.1	906.9	917.4
40°	829.7	838.5	861.3	878.8	894.6
42.5°	794.6	803.4	827.9	854.2	875.3
45°	754.3	766.5	792.8	829.7	854.2
47.5°	713.9	726.2	759.5	805.1	829.7
50°	671.8	685.8	726.2	778.8	805.1
52.5°	628.0	643.7	694.6	750.7	777.1
55°	582.4	601.7	659.5	719.2	747.2
57.5°	535.0	556.0	624.5	687.6	717.4
60°	485.9	512.2	587.6	654.3	685.8
62.5°	435.0	466.6	550.8	619.2	652.5
65°	382.4	419.2	512.2	584.1	617.4
67.5°	328.0	377.1	473.6	549.0	582.4
70°	273.6	331.5	433.3	510.4	543.8
72.5°	222.8	289.4	392.9	464.8	471.8
75°	173.7	247.3	350.8	357.8	345.6
77.5°	129.8	205.2	289.4	257.9	256.1
80°	93.0	164.9	185.9	191.2	192.9
82.5°	61.4	124.5	121.0	124.5	122.8
85°	36.8	61.4	63.1	61.4	57.9
87.5°	17.5	22.8	17.5	15.8	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)