

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: P260612

Luminaire Tested: **24CZ-LD5-40SE-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3825.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

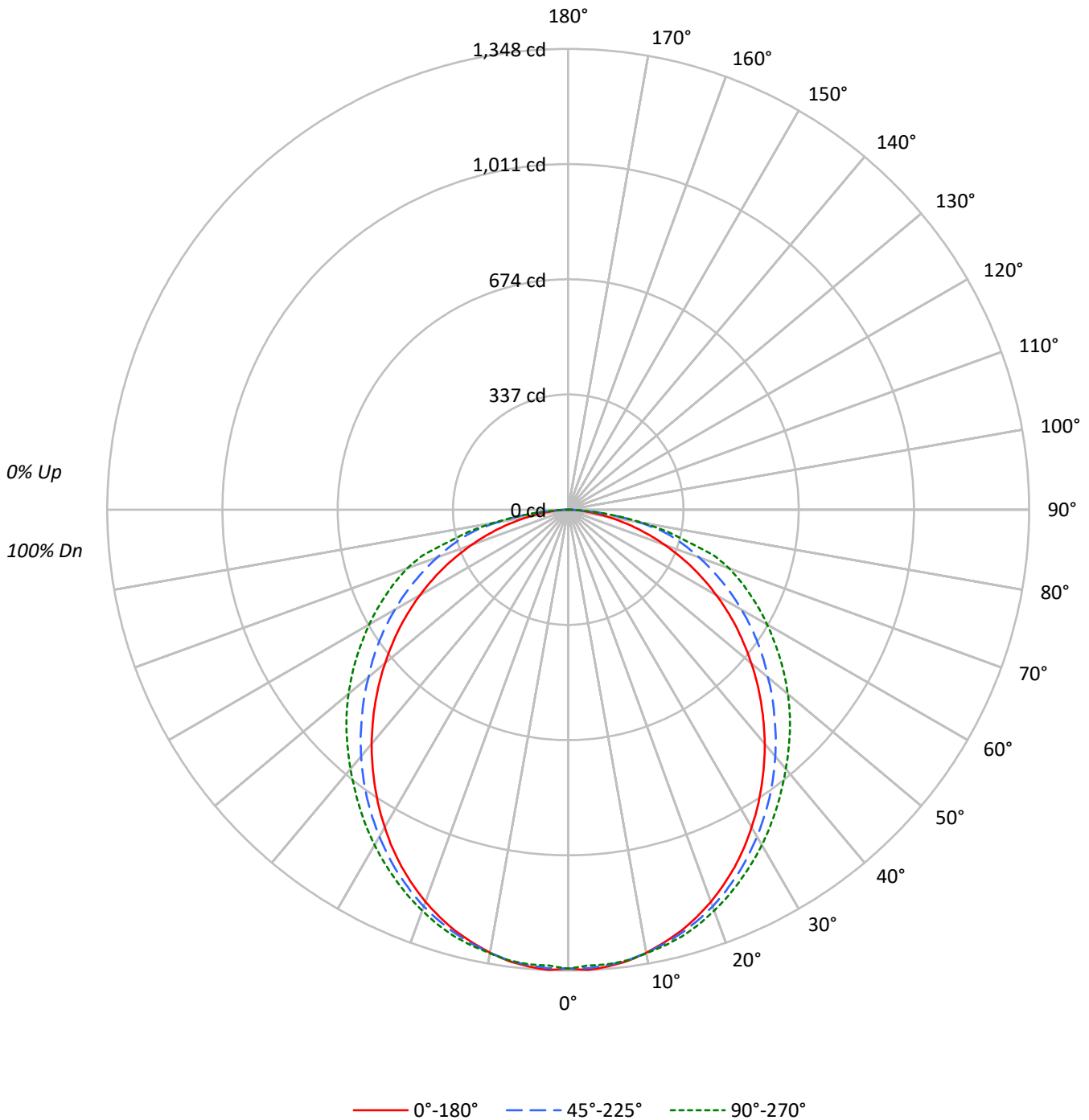
Input Watts (W): 30.350178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1806	1806	1806
5°	1811	1806	1802
10°	1798	1798	1800
15°	1777	1786	1799
20°	1748	1768	1787
25°	1711	1744	1773
30°	1666	1715	1760
35°	1620	1687	1747
40°	1571	1654	1739
45°	1518	1622	1744
50°	1464	1595	1755
55°	1410	1585	1773
60°	1346	1575	1808
65°	1276	1576	1868
70°	1180	1602	1968
75°	1055	1675	1872
80°	883	1603	1715
85°	667	1233	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.3
10°-20°	361.0	9.4
20°-30°	539.7	14.1
30°-40°	640.3	16.7
40°-50°	659.0	17.2
50°-60°	604.6	15.8
60°-70°	488.8	12.8
70°-80°	317.2	8.3
80°-90°	87.5	2.3
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°	1027.6	26.9
0°-40°	1667.9	43.6
0°-60°	2931.5	76.6
0°-90°	3825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1341	1332	1337	1336	1334	127
15°	1276	1270	1282	1287	1291	359
25°	1152	1154	1175	1185	1194	530
35°	986	994	1027	1049	1063	617
45°	798	811	853	893	917	615
55°	601	620	676	731	756	537
65°	401	424	495	560	587	396
75°	203	241	322	360	360	216
85°	43	73	80	77	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.4	1342.4	1342.4	1342.4	1342.4
2.5°	1347.6	1337.1	1342.4	1341.1	1334.5
5°	1341.1	1331.9	1337.1	1335.8	1334.5
7.5°	1331.9	1322.7	1329.3	1328.0	1329.3
10°	1316.2	1308.3	1316.2	1317.5	1317.5
12.5°	1296.5	1290.0	1300.5	1303.1	1305.7
15°	1275.6	1270.3	1282.1	1287.4	1291.3
17.5°	1249.4	1245.5	1259.9	1266.4	1271.7
20°	1220.6	1219.3	1235.0	1241.5	1248.1
22.5°	1187.8	1187.8	1206.2	1214.0	1223.2
25°	1152.5	1153.8	1174.7	1185.2	1194.4
27.5°	1114.5	1115.8	1140.7	1153.8	1164.3
30°	1072.6	1077.8	1104.0	1121.0	1132.8
32.5°	1030.7	1037.2	1066.0	1085.7	1098.8
35°	986.2	994.0	1026.8	1049.0	1063.4
37.5°	940.3	949.5	984.8	1009.7	1026.8
40°	894.5	905.0	941.6	970.4	990.1
42.5°	846.0	857.8	898.4	932.5	953.4
45°	797.6	810.7	852.6	893.2	916.7
47.5°	749.1	764.8	809.4	853.9	878.8
50°	699.3	715.1	762.2	813.3	838.2
52.5°	649.6	667.9	720.3	772.7	797.6
55°	601.1	619.5	675.8	730.8	755.7
57.5°	551.4	569.7	631.2	688.9	713.8
60°	500.3	521.2	585.4	644.3	671.8
62.5°	450.5	472.8	540.9	603.7	629.9
65°	400.7	424.3	495.0	560.5	586.7
67.5°	349.7	377.2	450.5	517.3	544.8
70°	299.9	330.0	407.3	474.1	500.3
72.5°	251.4	284.2	364.1	432.2	447.9
75°	203.0	241.0	322.2	360.1	360.1
77.5°	157.2	199.1	275.0	289.4	297.3
80°	113.9	159.8	206.9	223.9	221.3
82.5°	76.0	121.8	148.0	148.0	144.1
85°	43.2	73.3	79.9	77.3	76.0
87.5°	18.3	27.5	24.9	19.6	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)