

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: P260721

Luminaire Tested: **24CZ-LD5-40-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260721
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-LD5-40-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3845.0 lumens
Efficiency: N/A
Efficacy: 136.9 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

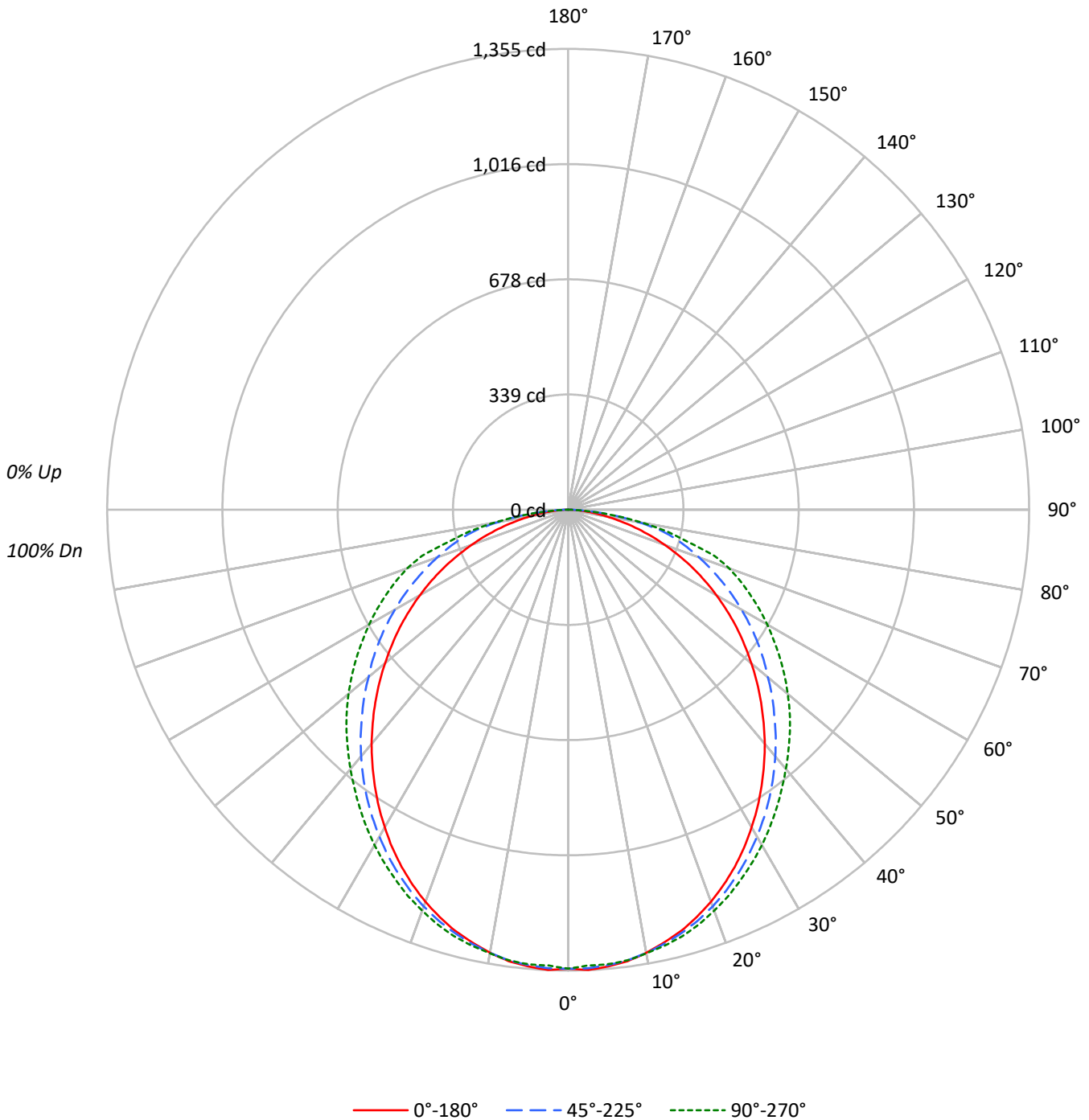
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1816	1816	1816
5°	1821	1815	1812
10°	1808	1808	1809
15°	1786	1795	1808
20°	1757	1777	1796
25°	1720	1753	1782
30°	1675	1724	1769
35°	1628	1695	1756
40°	1579	1663	1748
45°	1525	1631	1753
50°	1472	1604	1764
55°	1418	1593	1782
60°	1353	1584	1817
65°	1282	1584	1878
70°	1186	1611	1978
75°	1061	1684	1882
80°	887	1612	1724
85°	670	1240	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.3
10°-20°	362.9	9.4
20°-30°	542.5	14.1
30°-40°	643.6	16.7
40°-50°	662.5	17.2
50°-60°	607.7	15.8
60°-70°	491.4	12.8
70°-80°	318.9	8.3
80°-90°	87.9	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°	1033.0	26.9
0°-40°	1676.6	43.6
0°-60°	2946.8	76.6
0°-90°	3845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1348	1339	1344	1343	1342	128
15°	1282	1277	1289	1294	1298	361
25°	1158	1160	1181	1191	1201	533
35°	991	999	1032	1054	1069	620
45°	802	815	857	898	922	619
55°	604	623	679	735	760	540
65°	403	426	498	564	590	398
75°	204	242	324	362	362	217
85°	43	74	80	78	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.4	1349.4	1349.4	1349.4	1349.4
2.5°	1354.7	1344.1	1349.4	1348.1	1341.5
5°	1348.1	1338.9	1344.1	1342.8	1341.5
7.5°	1338.9	1329.6	1336.2	1334.9	1336.2
10°	1323.1	1315.2	1323.1	1324.4	1324.4
12.5°	1303.3	1296.7	1307.3	1309.9	1312.5
15°	1282.3	1277.0	1288.8	1294.1	1298.1
17.5°	1255.9	1252.0	1266.5	1273.0	1278.3
20°	1227.0	1225.6	1241.4	1248.0	1254.6
22.5°	1194.1	1194.1	1212.5	1220.4	1229.6
25°	1158.5	1159.8	1180.9	1191.4	1200.6
27.5°	1120.3	1121.6	1146.7	1159.8	1170.4
30°	1078.2	1083.5	1109.8	1126.9	1138.8
32.5°	1036.1	1042.7	1071.6	1091.4	1104.5
35°	991.3	999.2	1032.1	1054.5	1069.0
37.5°	945.2	954.5	990.0	1015.0	1032.1
40°	899.2	909.7	946.6	975.5	995.3
42.5°	850.4	862.3	903.1	937.3	958.4
45°	801.7	814.9	857.0	897.8	921.5
47.5°	753.0	768.8	813.6	858.3	883.4
50°	703.0	718.8	766.2	817.5	842.5
52.5°	653.0	671.4	724.1	776.7	801.7
55°	604.3	622.7	679.3	734.6	759.6
57.5°	554.2	572.7	634.5	692.5	717.5
60°	502.9	524.0	588.5	647.7	675.4
62.5°	452.9	475.3	543.7	606.9	633.2
65°	402.8	426.5	497.6	563.5	589.8
67.5°	351.5	379.1	452.9	520.0	547.7
70°	301.5	331.8	409.4	476.6	502.9
72.5°	252.8	285.7	366.0	434.4	450.2
75°	204.1	242.2	323.9	362.0	362.0
77.5°	158.0	200.1	276.5	290.9	298.8
80°	114.5	160.6	208.0	225.1	222.5
82.5°	76.4	122.4	148.8	148.8	144.8
85°	43.4	73.7	80.3	77.7	76.4
87.5°	18.4	27.6	25.0	19.7	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)