

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: P260840

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260840
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-LD5-30-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2711.0 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

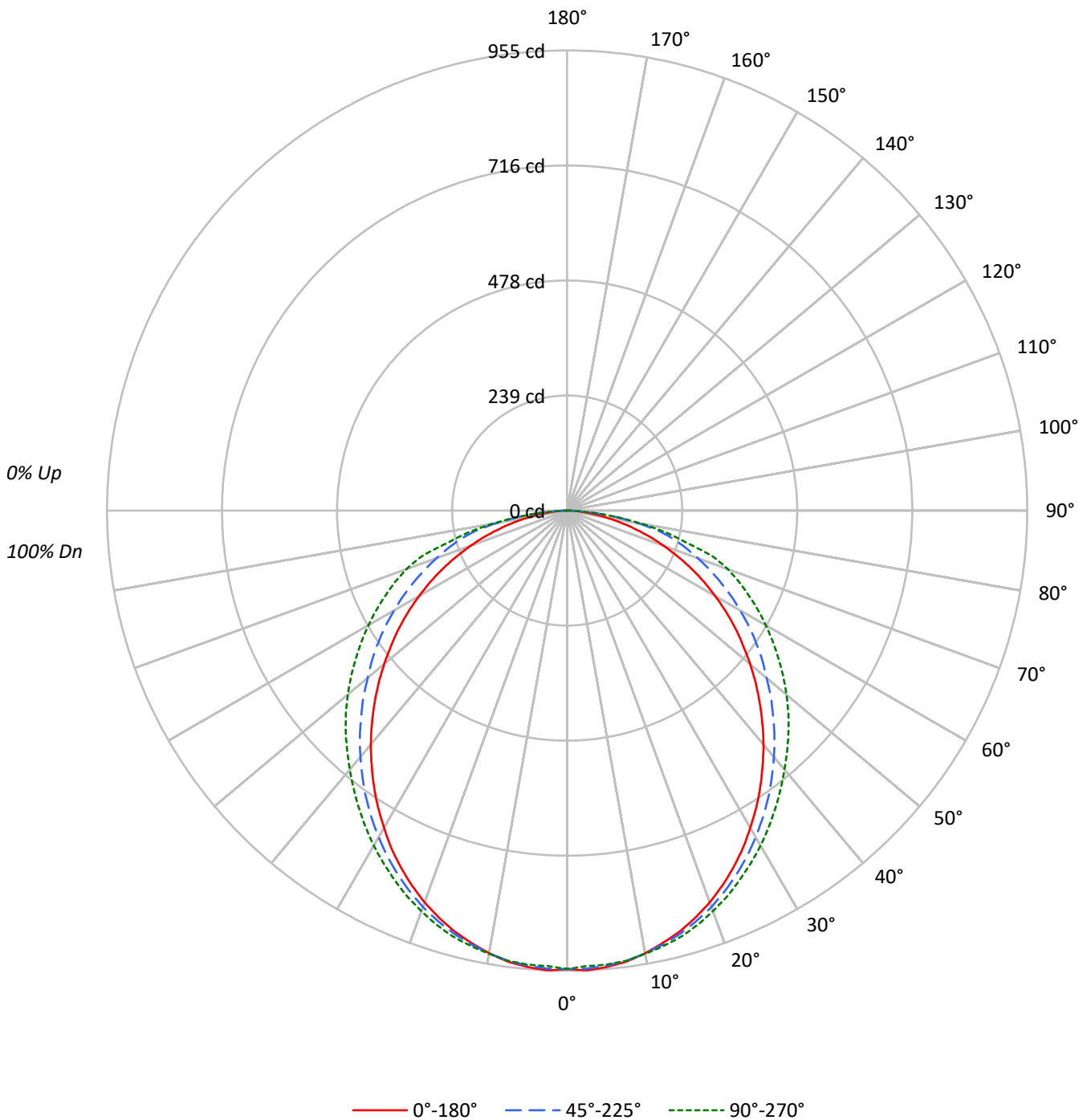
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1280	1280	1280
5°	1284	1280	1278
10°	1275	1275	1276
15°	1259	1266	1275
20°	1239	1253	1267
25°	1213	1236	1257
30°	1181	1216	1247
35°	1148	1195	1238
40°	1114	1172	1232
45°	1076	1150	1236
50°	1038	1131	1244
55°	1000	1124	1256
60°	954	1116	1281
65°	904	1117	1324
70°	836	1136	1395
75°	748	1187	1327
80°	626	1137	1216
85°	472	874	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.3
10°-20°	255.9	9.4
20°-30°	382.5	14.1
30°-40°	453.8	16.7
40°-50°	467.1	17.2
50°-60°	428.5	15.8
60°-70°	346.4	12.8
70°-80°	224.8	8.3
80°-90°	62.0	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°	728.3	26.9
0°-40°	1182.1	43.6
0°-60°	2077.7	76.6
0°-90°	2711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	950	944	948	947	946	90
15°	904	900	909	912	915	255
25°	817	818	833	840	846	376
35°	699	704	728	744	754	437
45°	565	575	604	633	650	436
55°	426	439	479	518	536	381
65°	284	301	351	397	416	281
75°	144	171	228	255	255	153
85°	31	52	57	55	54	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.4	951.4	951.4	951.4	951.4
2.5°	955.1	947.7	951.4	950.5	945.9
5°	950.5	944.0	947.7	946.8	945.9
7.5°	944.0	937.5	942.1	941.2	942.1
10°	932.9	927.3	932.9	933.8	933.8
12.5°	918.9	914.3	921.7	923.6	925.4
15°	904.1	900.4	908.7	912.4	915.2
17.5°	885.5	882.7	892.9	897.6	901.3
20°	865.1	864.2	875.3	879.9	884.6
22.5°	841.9	841.9	854.9	860.5	867.0
25°	816.8	817.8	832.6	840.0	846.5
27.5°	789.9	790.8	808.5	817.8	825.2
30°	760.2	763.9	782.5	794.6	802.9
32.5°	730.5	735.1	755.6	769.5	778.8
35°	698.9	704.5	727.7	743.5	753.7
37.5°	666.5	673.0	698.0	715.7	727.7
40°	634.0	641.4	667.4	687.8	701.7
42.5°	599.6	608.0	636.8	660.9	675.7
45°	565.3	574.6	604.3	633.0	649.8
47.5°	530.9	542.1	573.6	605.2	622.8
50°	495.7	506.8	540.2	576.4	594.1
52.5°	460.4	473.4	510.5	547.6	565.3
55°	426.1	439.0	479.0	517.9	535.6
57.5°	390.8	403.8	447.4	488.2	505.9
60°	354.6	369.4	414.9	456.7	476.2
62.5°	319.3	335.1	383.4	427.9	446.5
65°	284.0	300.7	350.9	397.3	415.8
67.5°	247.8	267.3	319.3	366.6	386.1
70°	212.6	233.9	288.7	336.0	354.6
72.5°	178.2	201.4	258.0	306.3	317.4
75°	143.9	170.8	228.3	255.3	255.3
77.5°	111.4	141.1	194.9	205.1	210.7
80°	80.8	113.2	146.7	158.7	156.9
82.5°	53.8	86.3	104.9	104.9	102.1
85°	30.6	52.0	56.6	54.8	53.8
87.5°	13.0	19.5	17.6	13.9	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)