

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: P261260

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2765.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

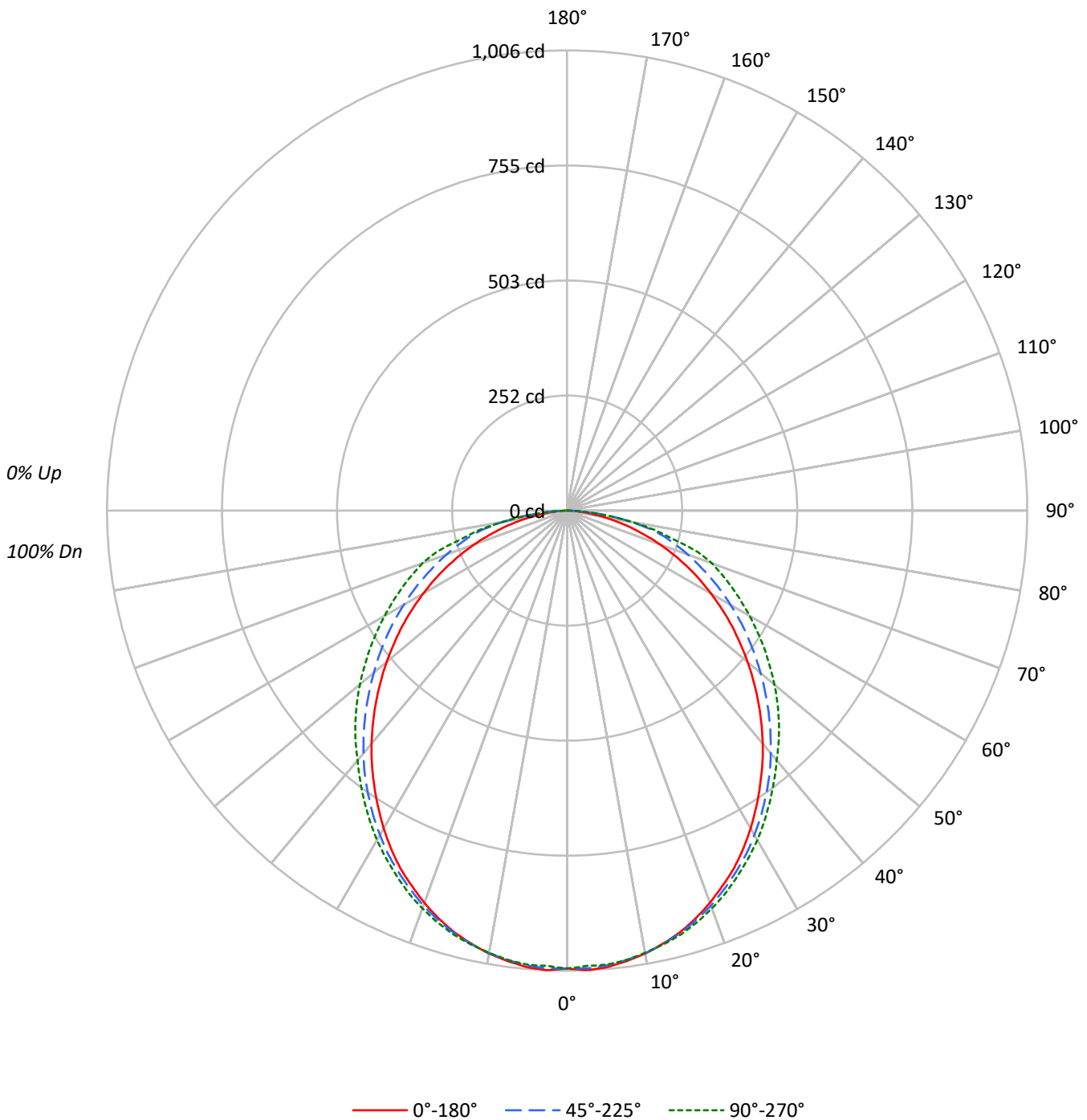
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1347	1347	1347
5°	1353	1348	1346
10°	1344	1342	1341
15°	1329	1332	1337
20°	1307	1316	1325
25°	1281	1295	1309
30°	1246	1272	1292
35°	1207	1245	1271
40°	1168	1217	1252
45°	1124	1185	1247
50°	1078	1155	1238
55°	1032	1131	1235
60°	978	1112	1240
65°	920	1098	1265
70°	847	1104	1325
75°	751	1143	1234
80°	628	1083	1112
85°	469	866	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.4
10°-20°	269.2	9.7
20°-30°	401.1	14.5
30°-40°	472.2	17.1
40°-50°	479.8	17.4
50°-60°	431.4	15.6
60°-70°	340.8	12.3
70°-80°	216.2	7.8
80°-90°	59.7	2.2
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°	764.9	27.7
0°-40°	1237.1	44.7
0°-60°	2148.3	77.7
0°-90°	2765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1002	994	998	996	996	95
15°	954	950	956	959	960	269
25°	863	862	872	878	881	397
35°	735	740	758	766	774	460
45°	591	599	623	641	655	456
55°	440	451	482	513	526	393
65°	289	304	345	383	397	286
75°	144	169	220	239	237	154
85°	30	52	56	52	52	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1005.6	998.2	1001.9	1000.1	996.4
5°	1001.9	993.6	998.2	996.4	996.4
7.5°	993.6	987.2	990.9	989.9	990.9
10°	983.5	977.1	982.6	982.6	981.7
12.5°	969.7	964.2	970.6	970.6	971.5
15°	954.1	949.5	955.9	958.7	959.6
17.5°	934.7	930.1	938.4	941.2	943.9
20°	912.7	910.8	919.1	921.9	925.5
22.5°	887.8	887.8	896.1	899.8	905.3
25°	863.0	862.1	872.2	877.7	881.4
27.5°	833.5	834.5	847.3	852.9	857.5
30°	802.3	804.1	818.8	825.3	831.7
32.5°	769.1	772.8	789.4	796.7	803.2
35°	735.1	739.7	758.1	766.4	773.7
37.5°	701.1	707.5	726.8	735.1	743.4
40°	665.2	670.7	692.8	702.9	713.0
42.5°	628.4	635.7	657.8	672.5	684.5
45°	590.7	598.9	622.9	641.3	655.1
47.5°	552.9	564.0	587.0	611.8	623.8
50°	515.2	526.3	552.0	579.6	591.6
52.5°	476.6	487.6	517.1	545.6	558.5
55°	439.8	450.8	482.1	513.4	526.3
57.5°	401.1	413.1	448.0	480.3	493.1
60°	363.4	375.4	413.1	447.1	460.9
62.5°	326.6	339.5	379.0	414.9	428.7
65°	288.9	303.6	345.0	382.7	397.4
67.5°	252.1	268.6	311.9	351.4	367.1
70°	215.3	234.6	280.6	321.1	336.7
72.5°	179.4	200.6	249.3	289.8	298.1
75°	144.4	169.3	219.9	239.2	237.4
77.5°	111.3	138.9	186.8	190.4	196.0
80°	81.0	111.3	139.8	147.2	143.5
82.5°	53.4	83.7	100.3	96.6	95.7
85°	30.4	52.4	56.1	51.5	51.5
87.5°	12.9	21.2	18.4	13.8	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)