

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: P261266

Luminaire Tested: **24CZ-LD5-35-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261266
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-LD5-35-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2813.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

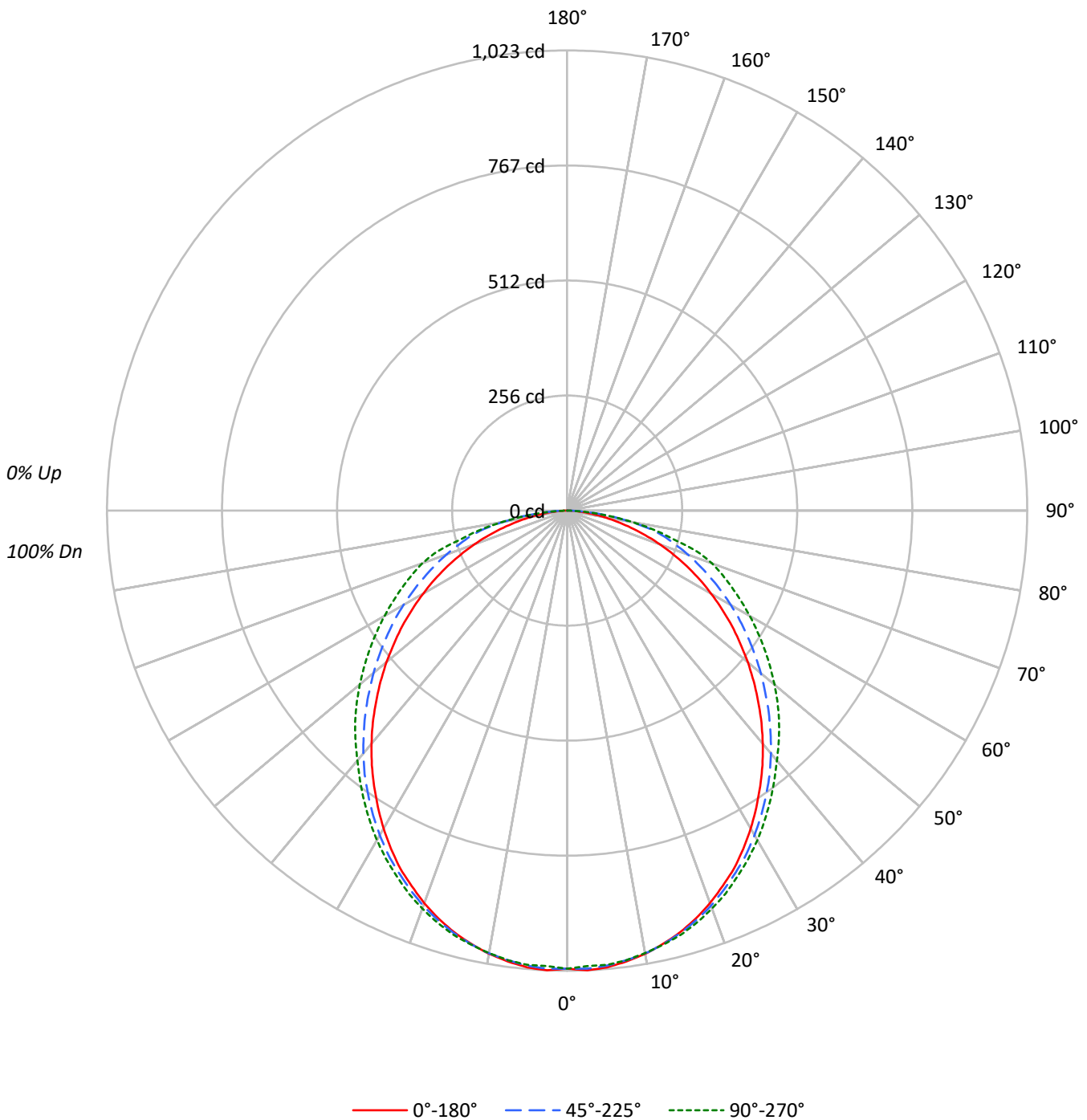
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261266

CATALOG NUMBER: 24CZ-LD5-35-S-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P261266

CATALOG NUMBER: 24CZ-LD5-35-S-UNV-L92765-W2A1-U-2700K

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°	1370	1370	1370
5°	1377	1372	1369
10°	1367	1366	1364
15°	1352	1355	1360
20°	1329	1339	1348
25°	1303	1317	1331
30°	1268	1294	1315
35°	1228	1267	1293
40°	1189	1238	1274
45°	1143	1206	1268
50°	1097	1176	1260
55°	1050	1151	1256
60°	995	1131	1262
65°	936	1117	1287
70°	862	1123	1348
75°	764	1163	1255
80°	638	1103	1131
85°	477	881	809



TEST NUMBER: P261266

CATALOG NUMBER: 24CZ-LD5-35-S-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.4
10°-20°	273.8	9.7
20°-30°	408.1	14.5
30°-40°	480.4	17.1
40°-50°	488.2	17.4
50°-60°	438.9	15.6
60°-70°	346.7	12.3
70°-80°	220.0	7.8
80°-90°	60.7	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°	778.2	27.7
0°-40°	1258.5	44.7
0°-60°	2185.6	77.7
0°-90°	2813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1019	1011	1016	1014	1014	97
15°	971	966	972	975	976	273
25°	878	877	887	893	897	404
35°	748	752	771	780	787	468
45°	601	609	634	652	666	464
55°	447	459	490	522	535	400
65°	294	309	351	389	404	291
75°	147	172	224	243	242	156
85°	31	53	57	52	52	38
90°	0	0	0	0	0	



TEST NUMBER: P261266

CATALOG NUMBER: 24CZ-LD5-35-S-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1023.0	1015.5	1019.3	1017.4	1013.7
5°	1019.3	1010.9	1015.5	1013.7	1013.7
7.5°	1010.9	1004.3	1008.1	1007.1	1008.1
10°	1000.6	994.0	999.6	999.6	998.7
12.5°	986.5	980.9	987.5	987.5	988.4
15°	970.6	965.9	972.5	975.3	976.2
17.5°	951.0	946.3	954.7	957.5	960.3
20°	928.5	926.6	935.1	937.9	941.6
22.5°	903.2	903.2	911.7	915.4	921.0
25°	878.0	877.0	887.3	892.9	896.7
27.5°	848.0	848.9	862.0	867.7	872.3
30°	816.2	818.1	833.0	839.6	846.1
32.5°	782.5	786.2	803.1	810.6	817.1
35°	747.9	752.5	771.3	779.7	787.2
37.5°	713.2	719.8	739.4	747.9	756.3
40°	676.7	682.3	704.8	715.1	725.4
42.5°	639.3	646.8	669.2	684.2	696.4
45°	600.9	609.3	633.7	652.4	666.4
47.5°	562.5	573.8	597.2	622.4	634.6
50°	524.2	535.4	561.6	589.7	601.8
52.5°	484.8	496.1	526.0	555.0	568.1
55°	447.4	458.6	490.5	522.3	535.4
57.5°	408.1	420.3	455.8	488.6	501.7
60°	369.7	381.9	420.3	454.9	468.9
62.5°	332.3	345.4	385.6	422.1	436.2
65°	293.9	308.9	351.0	389.4	404.3
67.5°	256.5	273.3	317.3	357.5	373.5
70°	219.0	238.7	285.5	326.7	342.6
72.5°	182.5	204.0	253.7	294.8	303.3
75°	147.0	172.2	223.7	243.4	241.5
77.5°	113.3	141.3	190.0	193.8	199.4
80°	82.4	113.3	142.3	149.8	146.0
82.5°	54.3	85.2	102.0	98.3	97.3
85°	30.9	53.4	57.1	52.4	52.4
87.5°	13.1	21.5	18.7	14.0	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)