

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: P260847

Luminaire Tested: **24CZ-LD5-35-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260847
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-LD5-35-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2867.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

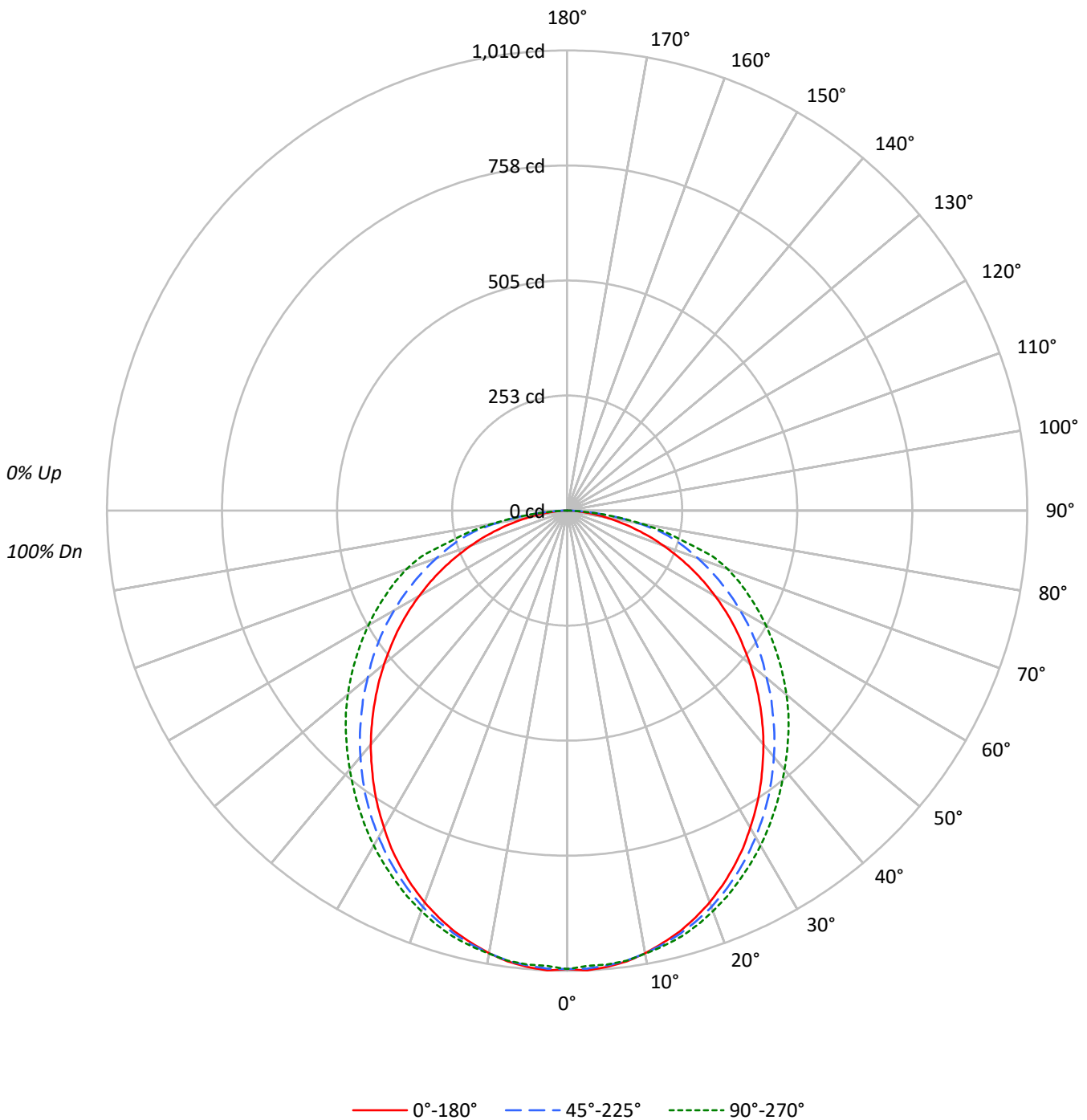
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260847

CATALOG NUMBER: 24CZ-LD5-35-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P260847

CATALOG NUMBER: 24CZ-LD5-35-UNV-L92765-W2A1-U-3000K

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°	1354	1354	1354
5°	1358	1354	1351
10°	1348	1348	1349
15°	1332	1339	1348
20°	1310	1325	1339
25°	1282	1307	1329
30°	1249	1286	1319
35°	1214	1264	1309
40°	1178	1240	1303
45°	1137	1216	1307
50°	1097	1196	1315
55°	1057	1188	1329
60°	1009	1181	1355
65°	956	1181	1400
70°	884	1201	1475
75°	791	1255	1403
80°	662	1202	1285
85°	500	925	878



TEST NUMBER: P260847

CATALOG NUMBER: 24CZ-LD5-35-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.3
10°-20°	270.6	9.4
20°-30°	404.5	14.1
30°-40°	479.9	16.7
40°-50°	494.0	17.2
50°-60°	453.1	15.8
60°-70°	366.4	12.8
70°-80°	237.8	8.3
80°-90°	65.6	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°	770.2	26.9
0°-40°	1250.2	43.6
0°-60°	2197.3	76.6
0°-90°	2867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	998	1002	1001	1000	95
15°	956	952	961	965	968	269
25°	864	865	880	888	895	398
35°	739	745	770	786	797	462
45°	598	608	639	670	687	461
55°	451	464	506	548	566	403
65°	300	318	371	420	440	297
75°	152	181	242	270	270	162
85°	32	55	60	58	57	40
90°	0	0	0	0	0	



TEST NUMBER: P260847

CATALOG NUMBER: 24CZ-LD5-35-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	1010.1	1002.2	1006.2	1005.2	1000.3
5°	1005.2	998.3	1002.2	1001.3	1000.3
7.5°	998.3	991.4	996.4	995.4	996.4
10°	986.5	980.6	986.5	987.5	987.5
12.5°	971.8	966.9	974.8	976.7	978.7
15°	956.1	952.2	961.0	964.9	967.9
17.5°	936.5	933.5	944.3	949.2	953.2
20°	914.9	913.9	925.7	930.6	935.5
22.5°	890.3	890.3	904.1	910.0	916.8
25°	863.8	864.8	880.5	888.4	895.2
27.5°	835.4	836.3	855.0	864.8	872.7
30°	804.0	807.9	827.5	840.3	849.1
32.5°	772.5	777.4	799.0	813.8	823.6
35°	739.2	745.1	769.6	786.3	797.1
37.5°	704.8	711.7	738.2	756.8	769.6
40°	670.5	678.3	705.8	727.4	742.1
42.5°	634.1	643.0	673.4	698.9	714.6
45°	597.8	607.6	639.0	669.5	687.1
47.5°	561.5	573.3	606.6	640.0	658.7
50°	524.2	536.0	571.3	609.6	628.2
52.5°	486.9	500.6	539.9	579.2	597.8
55°	450.6	464.3	506.5	547.7	566.4
57.5°	413.3	427.0	473.1	516.3	535.0
60°	375.0	390.7	438.8	483.0	503.6
62.5°	337.7	354.4	405.4	452.5	472.2
65°	300.4	318.0	371.1	420.1	439.8
67.5°	262.1	282.7	337.7	387.7	408.4
70°	224.8	247.4	305.3	355.3	375.0
72.5°	188.5	213.0	272.9	323.9	335.7
75°	152.2	180.6	241.5	269.9	269.9
77.5°	117.8	149.2	206.1	216.9	222.8
80°	85.4	119.8	155.1	167.9	165.9
82.5°	56.9	91.3	110.9	110.9	108.0
85°	32.4	55.0	59.9	57.9	56.9
87.5°	13.7	20.6	18.7	14.7	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)