

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: P260927

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260927
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-LD5-30SE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2377.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

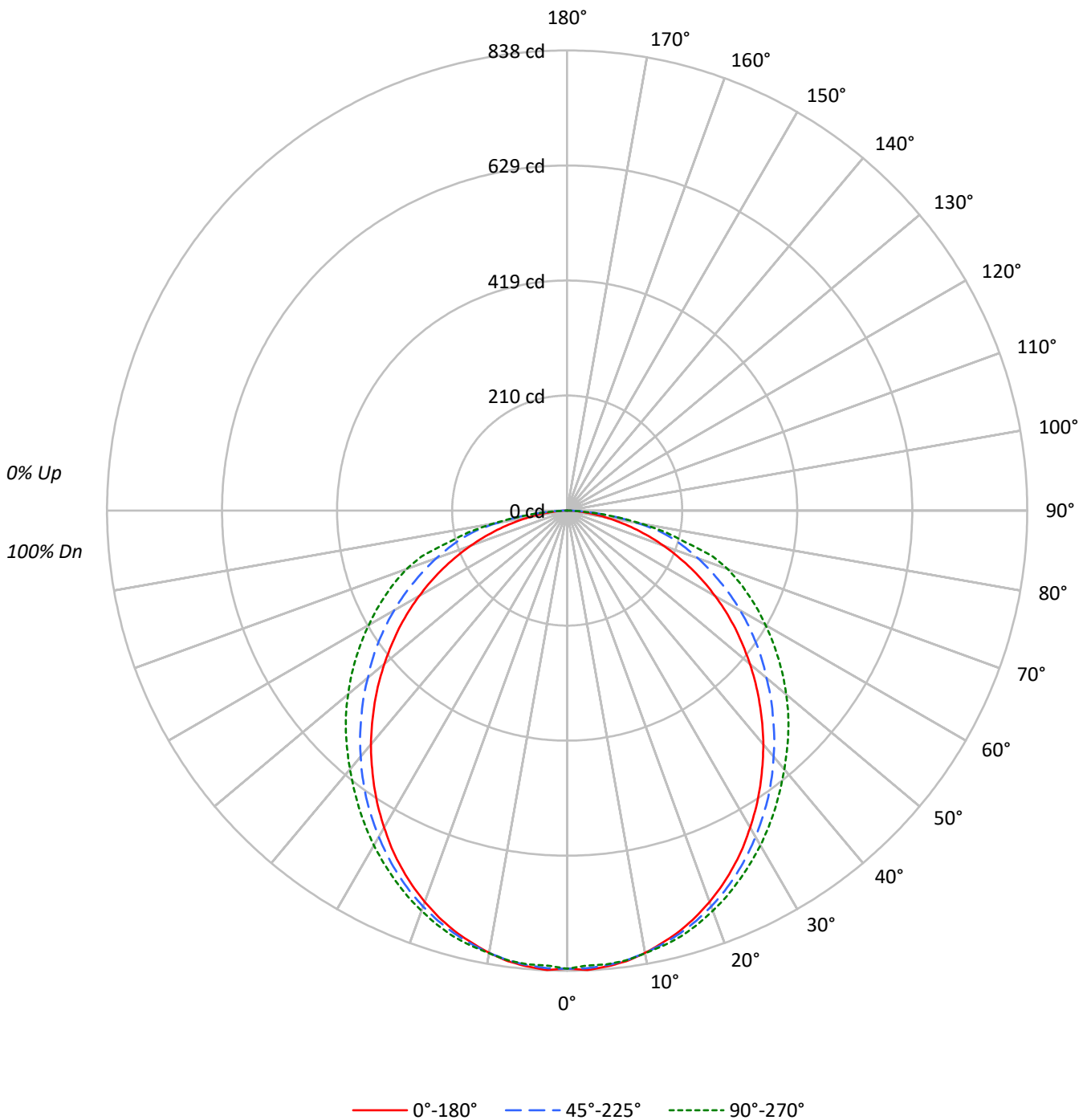
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260927

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P260927

CATALOG NUMBER: 24CZ-LD5-30SE-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	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°	1122	1122	1122
5°	1126	1122	1120
10°	1117	1117	1119
15°	1104	1110	1118
20°	1086	1099	1111
25°	1063	1084	1102
30°	1035	1066	1094
35°	1007	1048	1086
40°	976	1028	1081
45°	943	1008	1084
50°	910	992	1090
55°	876	985	1102
60°	837	979	1123
65°	793	979	1161
70°	733	996	1223
75°	656	1041	1163
80°	549	996	1065
85°	415	766	729



TEST NUMBER: P260927

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.3
10°-20°	224.4	9.4
20°-30°	335.4	14.1
30°-40°	397.9	16.7
40°-50°	409.5	17.2
50°-60°	375.7	15.8
60°-70°	303.8	12.8
70°-80°	197.1	8.3
80°-90°	54.4	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°	638.6	26.9
0°-40°	1036.5	43.6
0°-60°	1821.7	76.6
0°-90°	2377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	833	828	831	830	829	79
15°	793	789	797	800	802	223
25°	716	717	730	736	742	330
35°	613	618	638	652	661	383
45°	496	504	530	555	570	382
55°	374	385	420	454	470	334
65°	249	264	308	348	365	246
75°	126	150	200	224	224	134
85°	27	46	50	48	47	33
90°	0	0	0	0	0	



TEST NUMBER: P260927

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	834.2	834.2	834.2	834.2	834.2
2.5°	837.5	830.9	834.2	833.4	829.3
5°	833.4	827.7	830.9	830.1	829.3
7.5°	827.7	822.0	826.1	825.3	826.1
10°	817.9	813.0	817.9	818.7	818.7
12.5°	805.7	801.6	808.2	809.8	811.4
15°	792.7	789.4	796.8	800.0	802.5
17.5°	776.4	774.0	782.9	787.0	790.3
20°	758.5	757.7	767.5	771.5	775.6
22.5°	738.2	738.2	749.6	754.4	760.1
25°	716.2	717.0	730.0	736.5	742.2
27.5°	692.6	693.4	708.9	717.0	723.5
30°	666.5	669.8	686.1	696.7	704.0
32.5°	640.5	644.6	662.5	674.7	682.8
35°	612.8	617.7	638.1	651.9	660.9
37.5°	584.3	590.0	612.0	627.5	638.1
40°	555.9	562.4	585.2	603.1	615.3
42.5°	525.8	533.1	558.3	579.5	592.5
45°	495.6	503.8	529.8	555.1	569.7
47.5°	465.5	475.3	503.0	530.6	546.1
50°	434.6	444.4	473.7	505.4	520.9
52.5°	403.7	415.1	447.6	480.2	495.6
55°	373.6	385.0	420.0	454.1	469.6
57.5°	342.6	354.0	392.3	428.1	443.6
60°	310.9	323.9	363.8	400.4	417.5
62.5°	280.0	293.8	336.1	375.2	391.5
65°	249.0	263.7	307.6	348.3	364.6
67.5°	217.3	234.4	280.0	321.5	338.6
70°	186.4	205.1	253.1	294.6	310.9
72.5°	156.3	176.6	226.3	268.6	278.3
75°	126.1	149.7	200.2	223.8	223.8
77.5°	97.7	123.7	170.9	179.9	184.7
80°	70.8	99.3	128.6	139.2	137.5
82.5°	47.2	75.7	92.0	92.0	89.5
85°	26.9	45.6	49.6	48.0	47.2
87.5°	11.4	17.1	15.5	12.2	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)