

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: P260931

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260931
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2748.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

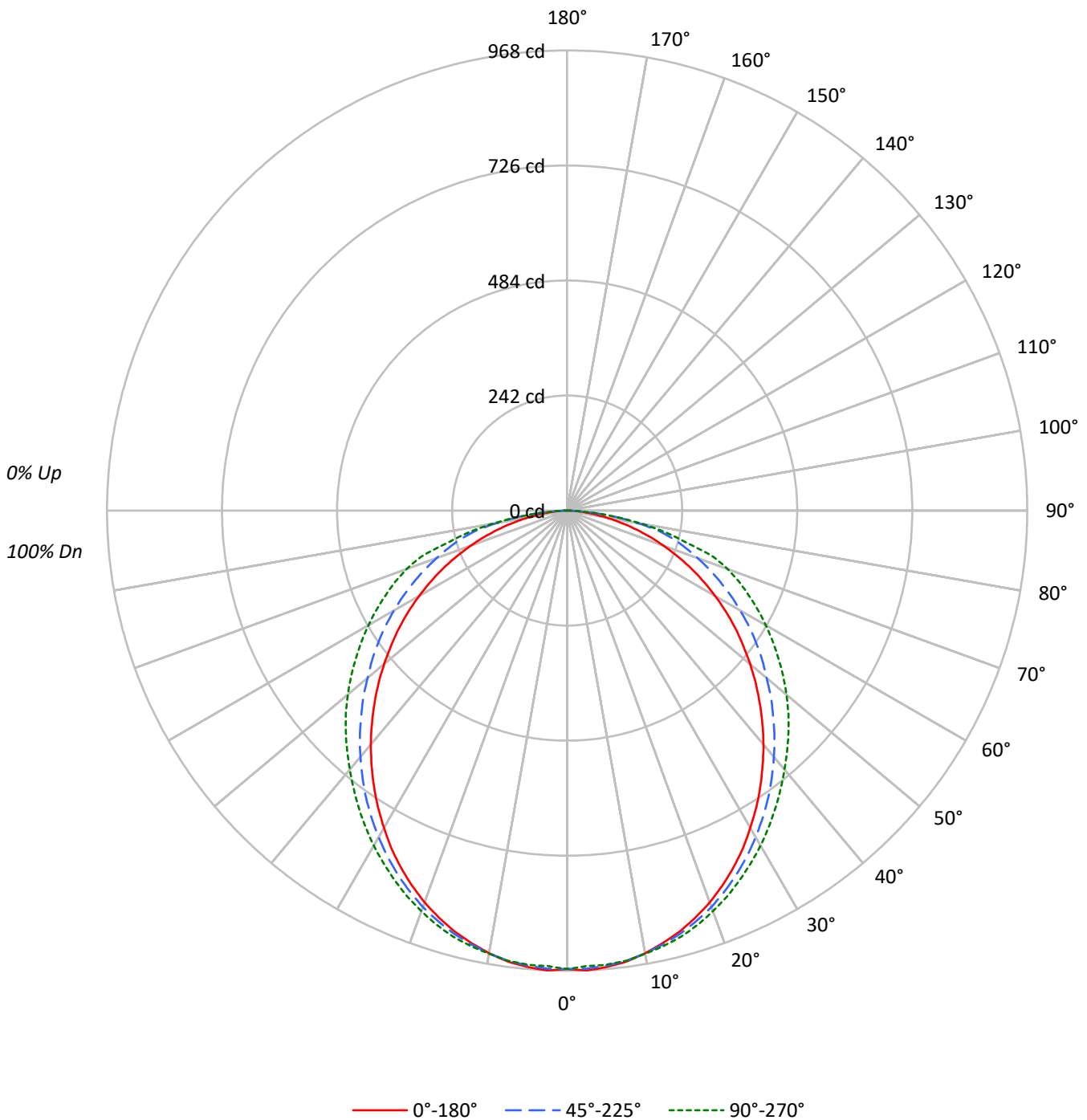
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1298	1298	1298
5°	1301	1297	1295
10°	1292	1292	1293
15°	1277	1283	1292
20°	1256	1270	1284
25°	1229	1253	1274
30°	1197	1232	1265
35°	1164	1212	1255
40°	1129	1188	1249
45°	1090	1165	1253
50°	1052	1146	1261
55°	1013	1139	1274
60°	967	1132	1299
65°	917	1132	1342
70°	848	1151	1414
75°	758	1203	1345
80°	635	1152	1232
85°	479	886	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.3
10°-20°	259.4	9.4
20°-30°	387.8	14.1
30°-40°	460.0	16.7
40°-50°	473.5	17.2
50°-60°	434.3	15.8
60°-70°	351.2	12.8
70°-80°	227.9	8.3
80°-90°	62.8	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°	738.3	26.9
0°-40°	1198.3	43.6
0°-60°	2106.1	76.6
0°-90°	2748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	964	957	961	960	959	91
15°	916	913	921	925	928	258
25°	828	829	844	852	858	381
35°	708	714	738	754	764	443
45°	573	582	612	642	659	442
55°	432	445	486	525	543	386
65°	288	305	356	403	422	285
75°	146	173	232	259	259	155
85°	31	53	57	56	55	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.4	964.4	964.4	964.4	964.4
2.5°	968.2	960.6	964.4	963.5	958.8
5°	963.5	956.9	960.6	959.7	958.8
7.5°	956.9	950.3	955.0	954.1	955.0
10°	945.6	939.9	945.6	946.5	946.5
12.5°	931.5	926.8	934.3	936.2	938.1
15°	916.4	912.7	921.1	924.9	927.7
17.5°	897.6	894.8	905.1	909.8	913.6
20°	876.9	876.0	887.3	892.0	896.7
22.5°	853.4	853.4	866.6	872.2	878.8
25°	828.0	828.9	844.0	851.5	858.1
27.5°	800.7	801.6	819.5	828.9	836.4
30°	770.6	774.3	793.2	805.4	813.9
32.5°	740.5	745.2	765.9	780.0	789.4
35°	708.5	714.1	737.7	753.6	764.0
37.5°	675.6	682.1	707.5	725.4	737.7
40°	642.6	650.2	676.5	697.2	711.3
42.5°	607.8	616.3	645.4	669.9	685.0
45°	573.0	582.4	612.5	641.7	658.6
47.5°	538.2	549.5	581.5	613.5	631.3
50°	502.4	513.7	547.6	584.3	602.2
52.5°	466.7	479.9	517.5	555.1	573.0
55°	431.9	445.0	485.5	525.0	542.9
57.5°	396.1	409.3	453.5	494.9	512.8
60°	359.4	374.5	420.6	462.9	482.7
62.5°	323.7	339.7	388.6	433.7	452.6
65°	287.9	304.8	355.7	402.7	421.5
67.5°	251.2	271.0	323.7	371.6	391.4
70°	215.5	237.1	292.6	340.6	359.4
72.5°	180.6	204.2	261.6	310.5	321.8
75°	145.8	173.1	231.5	258.7	258.7
77.5°	112.9	143.0	197.6	207.9	213.6
80°	81.9	114.8	148.7	160.9	159.0
82.5°	54.6	87.5	106.3	106.3	103.5
85°	31.0	52.7	57.4	55.5	54.6
87.5°	13.2	19.8	17.9	14.1	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)