

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: P260935

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260935
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

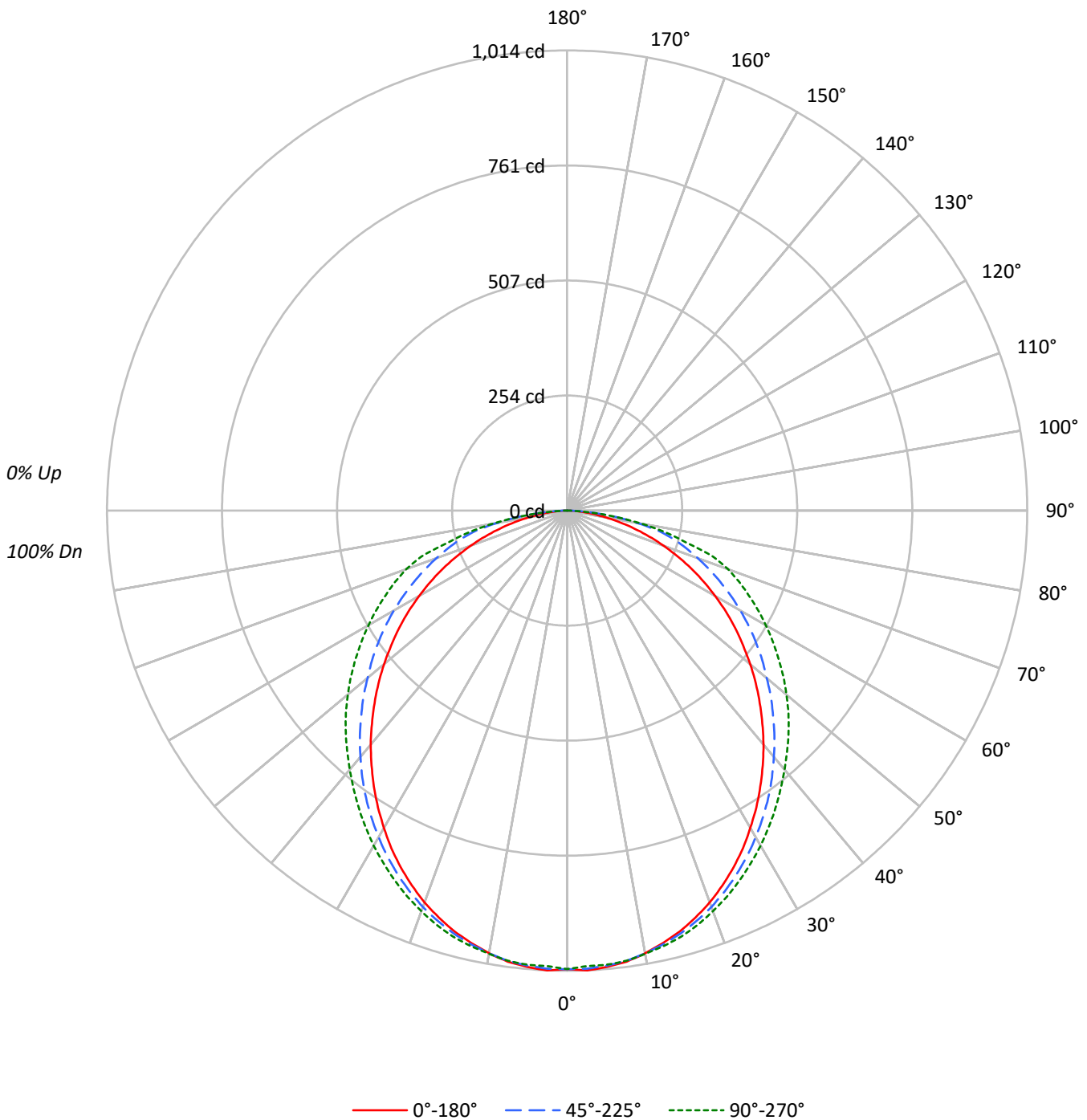
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1359	1359	1359
5°	1363	1359	1357
10°	1354	1354	1355
15°	1337	1344	1354
20°	1315	1331	1345
25°	1288	1313	1335
30°	1254	1291	1325
35°	1219	1269	1315
40°	1183	1245	1309
45°	1142	1221	1313
50°	1102	1201	1321
55°	1061	1193	1334
60°	1013	1186	1361
65°	960	1186	1406
70°	888	1206	1482
75°	794	1261	1409
80°	665	1206	1291
85°	502	928	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	3.3
10°-20°	271.7	9.4
20°-30°	406.2	14.1
30°-40°	481.9	16.7
40°-50°	496.0	17.2
50°-60°	455.0	15.8
60°-70°	367.9	12.8
70°-80°	238.8	8.3
80°-90°	65.8	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°	773.5	26.9
0°-40°	1255.4	43.6
0°-60°	2206.5	76.6
0°-90°	2879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1009	1002	1006	1006	1004	96
15°	960	956	965	969	972	270
25°	867	868	884	892	899	399
35°	742	748	773	790	800	464
45°	600	610	642	672	690	463
55°	452	466	509	550	569	404
65°	302	319	373	422	442	298
75°	153	181	242	271	271	162
85°	32	55	60	58	57	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.4	1010.4	1010.4	1010.4	1010.4
2.5°	1014.3	1006.4	1010.4	1009.4	1004.5
5°	1009.4	1002.5	1006.4	1005.5	1004.5
7.5°	1002.5	995.6	1000.5	999.5	1000.5
10°	990.7	984.8	990.7	991.7	991.7
12.5°	975.9	970.9	978.8	980.8	982.8
15°	960.1	956.2	965.0	969.0	971.9
17.5°	940.4	937.4	948.3	953.2	957.1
20°	918.7	917.7	929.5	934.5	939.4
22.5°	894.1	894.1	907.9	913.8	920.7
25°	867.4	868.4	884.2	892.1	899.0
27.5°	838.9	839.8	858.6	868.4	876.3
30°	807.3	811.3	831.0	843.8	852.7
32.5°	775.8	780.7	802.4	817.2	827.0
35°	742.3	748.2	772.8	789.6	800.4
37.5°	707.8	714.7	741.3	760.0	772.8
40°	673.3	681.1	708.7	730.4	745.2
42.5°	636.8	645.7	676.2	701.8	717.6
45°	600.3	610.2	641.7	672.3	690.0
47.5°	563.8	575.7	609.2	642.7	661.4
50°	526.4	538.2	573.7	612.1	630.9
52.5°	488.9	502.7	542.2	581.6	600.3
55°	452.5	466.3	508.6	550.0	568.8
57.5°	415.0	428.8	475.1	518.5	537.2
60°	376.6	392.3	440.6	485.0	505.7
62.5°	339.1	355.9	407.1	454.4	474.1
65°	301.6	319.4	372.6	421.9	441.6
67.5°	263.2	283.9	339.1	389.4	410.1
70°	225.7	248.4	306.6	356.8	376.6
72.5°	189.3	213.9	274.0	325.3	337.1
75°	152.8	181.4	242.5	271.1	271.1
77.5°	118.3	149.8	207.0	217.8	223.8
80°	85.8	120.3	155.7	168.6	166.6
82.5°	57.2	91.7	111.4	111.4	108.4
85°	32.5	55.2	60.1	58.2	57.2
87.5°	13.8	20.7	18.7	14.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)