

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: P261212

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261212
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-LD5-30SE-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2839.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

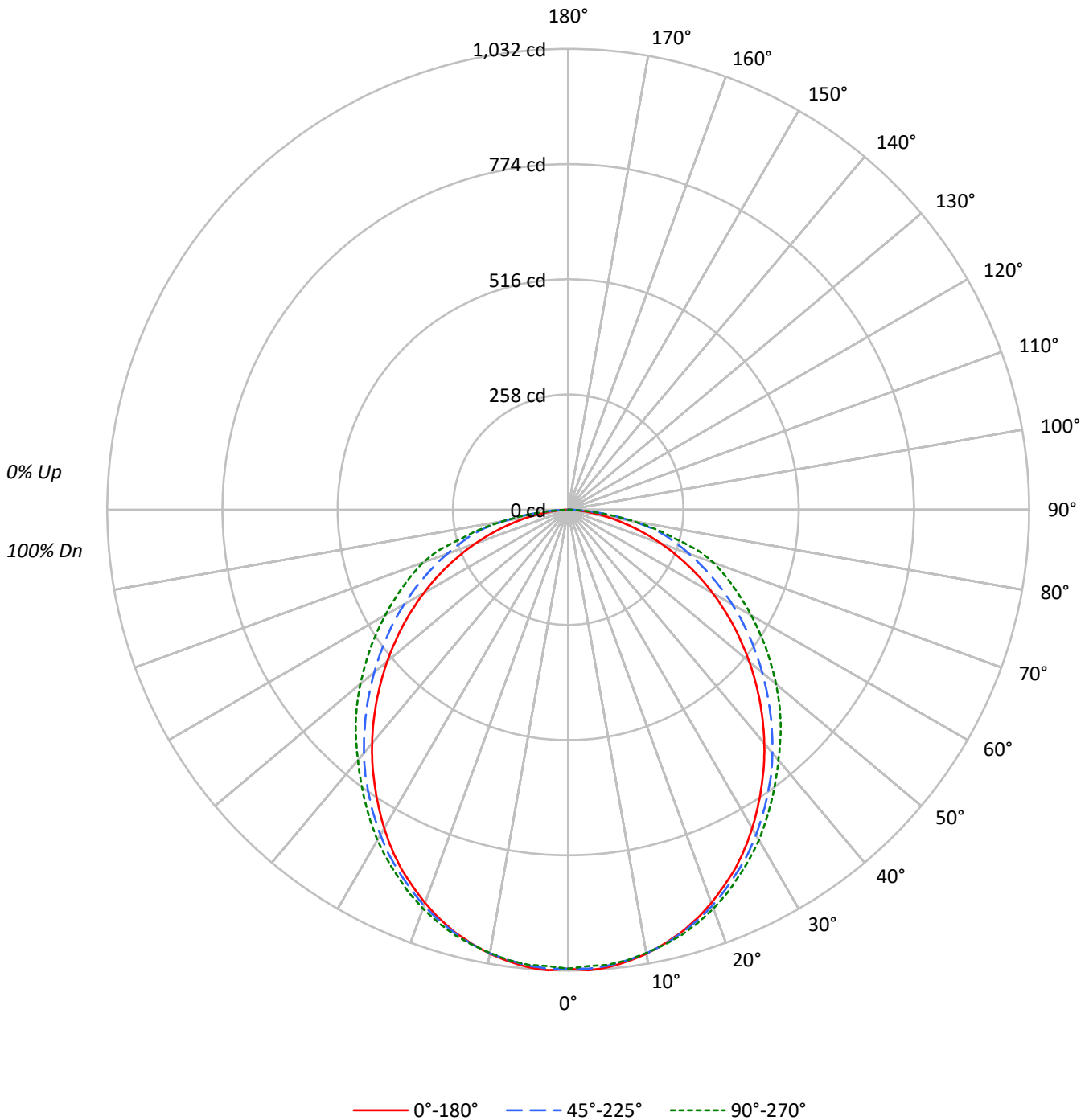
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1383	1383	1383
5°	1389	1384	1382
10°	1380	1378	1377
15°	1365	1367	1372
20°	1342	1351	1361
25°	1315	1329	1344
30°	1280	1306	1327
35°	1240	1279	1305
40°	1200	1249	1286
45°	1154	1217	1280
50°	1107	1186	1271
55°	1059	1161	1267
60°	1004	1141	1274
65°	944	1128	1299
70°	869	1133	1360
75°	771	1174	1267
80°	644	1113	1142
85°	482	889	817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.4
10°-20°	276.4	9.7
20°-30°	411.8	14.5
30°-40°	484.8	17.1
40°-50°	492.7	17.4
50°-60°	442.9	15.6
60°-70°	349.9	12.3
70°-80°	222.0	7.8
80°-90°	61.3	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°	785.4	27.7
0°-40°	1270.2	44.7
0°-60°	2205.8	77.7
0°-90°	2839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1029	1020	1025	1023	1023	98
15°	980	975	982	984	985	276
25°	886	885	896	901	905	407
35°	755	760	778	787	794	472
45°	606	615	640	658	673	468
55°	452	463	495	527	540	403
65°	297	312	354	393	408	294
75°	148	174	226	246	244	158
85°	31	54	58	53	53	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.8	1027.8	1027.8	1027.8	1027.8
2.5°	1032.5	1024.9	1028.7	1026.8	1023.0
5°	1028.7	1020.2	1024.9	1023.0	1023.0
7.5°	1020.2	1013.6	1017.4	1016.4	1017.4
10°	1009.8	1003.2	1008.9	1008.9	1007.9
12.5°	995.7	990.0	996.6	996.6	997.5
15°	979.6	974.9	981.5	984.3	985.3
17.5°	959.8	955.0	963.5	966.4	969.2
20°	937.1	935.2	943.7	946.5	950.3
22.5°	911.6	911.6	920.1	923.9	929.5
25°	886.1	885.1	895.5	901.2	905.0
27.5°	855.8	856.8	870.0	875.7	880.4
30°	823.7	825.6	840.7	847.3	854.0
32.5°	789.7	793.5	810.5	818.1	824.7
35°	754.8	759.5	778.4	786.9	794.4
37.5°	719.8	726.4	746.3	754.8	763.3
40°	683.0	688.6	711.3	721.7	732.1
42.5°	645.2	652.7	675.4	690.5	702.8
45°	606.5	615.0	639.5	658.4	672.6
47.5°	567.7	579.1	602.7	628.2	640.5
50°	529.0	540.3	566.8	595.1	607.4
52.5°	489.3	500.7	530.9	560.2	573.4
55°	451.5	462.9	495.0	527.1	540.3
57.5°	411.9	424.1	460.0	493.1	506.3
60°	373.1	385.4	424.1	459.1	473.3
62.5°	335.3	348.6	389.2	426.0	440.2
65°	296.6	311.7	354.2	393.0	408.1
67.5°	258.8	275.8	320.2	360.9	376.9
70°	221.0	240.9	288.1	329.7	345.7
72.5°	184.2	205.9	256.0	297.6	306.1
75°	148.3	173.8	225.8	245.6	243.7
77.5°	114.3	142.6	191.8	195.5	201.2
80°	83.1	114.3	143.6	151.1	147.4
82.5°	54.8	86.0	103.0	99.2	98.2
85°	31.2	53.8	57.6	52.9	52.9
87.5°	13.2	21.7	18.9	14.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)