

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: P260972

Luminaire Tested: **24CZ-LD5-30-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260972
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-LD5-30-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2959.0 lumens
Efficiency: N/A
Efficacy: 151.1 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

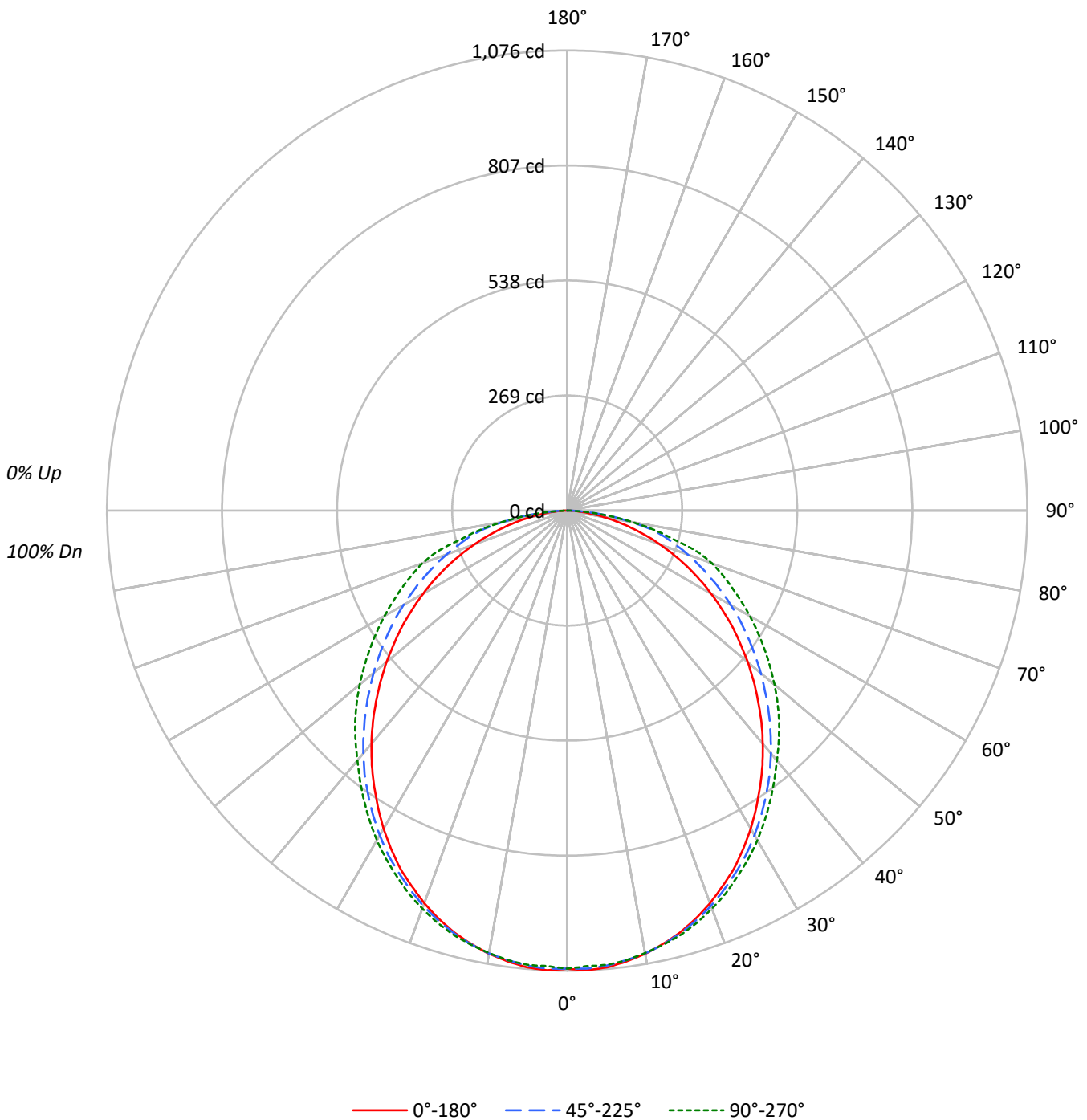
Input Watts (W): 19.583754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1441	1441	1441
5°	1448	1443	1440
10°	1438	1437	1435
15°	1422	1425	1430
20°	1398	1408	1418
25°	1371	1386	1400
30°	1334	1361	1383
35°	1292	1333	1360
40°	1250	1302	1340
45°	1203	1268	1334
50°	1154	1236	1325
55°	1104	1210	1321
60°	1047	1190	1327
65°	984	1175	1354
70°	906	1181	1418
75°	804	1223	1320
80°	671	1160	1190
85°	502	928	851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.4
10°-20°	288.0	9.7
20°-30°	429.3	14.5
30°-40°	505.3	17.1
40°-50°	513.5	17.4
50°-60°	461.7	15.6
60°-70°	364.7	12.3
70°-80°	231.4	7.8
80°-90°	63.9	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°	818.6	27.7
0°-40°	1323.9	44.7
0°-60°	2299.0	77.7
0°-90°	2959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1072	1063	1068	1066	1066	102
15°	1021	1016	1023	1026	1027	288
25°	924	922	933	939	943	425
35°	787	792	811	820	828	492
45°	632	641	667	686	701	488
55°	471	482	516	549	563	420
65°	309	325	369	410	425	306
75°	155	181	235	256	254	165
85°	32	56	60	55	55	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1076.1	1068.3	1072.2	1070.2	1066.3
5°	1072.2	1063.3	1068.3	1066.3	1066.3
7.5°	1063.3	1056.4	1060.4	1059.4	1060.4
10°	1052.5	1045.6	1051.5	1051.5	1050.5
12.5°	1037.7	1031.8	1038.7	1038.7	1039.7
15°	1021.0	1016.1	1023.0	1025.9	1026.9
17.5°	1000.3	995.4	1004.3	1007.2	1010.2
20°	976.7	974.7	983.6	986.5	990.5
22.5°	950.1	950.1	959.0	962.9	968.8
25°	923.5	922.5	933.4	939.3	943.2
27.5°	892.0	893.0	906.8	912.7	917.6
30°	858.5	860.5	876.3	883.2	890.1
32.5°	823.1	827.0	844.8	852.6	859.5
35°	786.7	791.6	811.3	820.1	828.0
37.5°	750.2	757.1	777.8	786.7	795.5
40°	711.8	717.8	741.4	752.2	763.0
42.5°	672.5	680.3	704.0	719.7	732.5
45°	632.1	641.0	666.6	686.2	701.0
47.5°	591.7	603.5	628.2	654.7	667.5
50°	551.4	563.2	590.7	620.3	633.1
52.5°	510.0	521.8	553.3	583.9	597.6
55°	470.6	482.4	515.9	549.4	563.2
57.5°	429.3	442.1	479.5	513.9	527.7
60°	388.9	401.7	442.1	478.5	493.3
62.5°	349.5	363.3	405.6	444.0	458.8
65°	309.2	324.9	369.2	409.6	425.3
67.5°	269.8	287.5	333.8	376.1	392.8
70°	230.4	251.1	300.3	343.6	360.4
72.5°	192.0	214.6	266.8	310.1	319.0
75°	154.6	181.2	235.3	256.0	254.0
77.5°	119.1	148.7	199.9	203.8	209.7
80°	86.6	119.1	149.7	157.5	153.6
82.5°	57.1	89.6	107.3	103.4	102.4
85°	32.5	56.1	60.1	55.1	55.1
87.5°	13.8	22.6	19.7	14.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)