

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: P276557

Luminaire Tested: **24CZ2-30-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3104.2 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

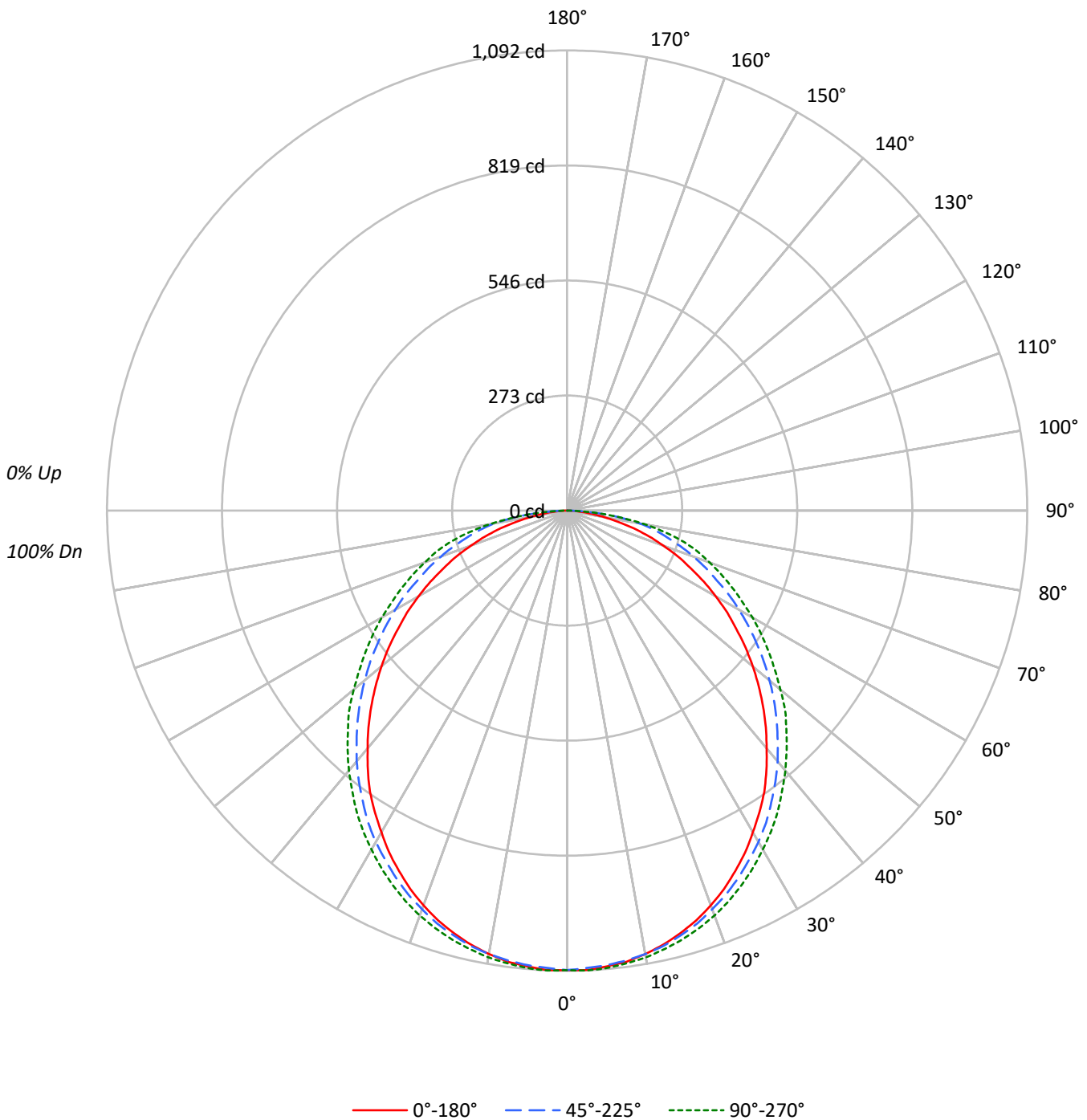
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1467	1467	1467
5°	1466	1462	1472
10°	1460	1460	1471
15°	1446	1453	1468
20°	1427	1441	1464
25°	1401	1427	1455
30°	1370	1411	1443
35°	1339	1388	1432
40°	1294	1365	1415
45°	1251	1338	1400
50°	1203	1313	1383
55°	1150	1288	1369
60°	1096	1268	1366
65°	1026	1246	1375
70°	950	1253	1412
75°	851	1276	1491
80°	687	1352	1459
85°	517	1187	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.3
10°-20°	295.0	9.5
20°-30°	443.4	14.3
30°-40°	528.2	17.0
40°-50°	540.6	17.4
50°-60°	486.7	15.7
60°-70°	382.2	12.3
70°-80°	248.1	8.0
80°-90°	76.7	2.5
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°	841.7	27.1
0°-40°	1369.9	44.1
0°-60°	2397.2	77.2
0°-90°	3104.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3104.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1086	1088	1083	1089	1090	103
15°	1038	1041	1043	1052	1054	293
25°	944	952	961	977	980	435
35°	815	825	845	866	872	509
45°	658	674	703	730	736	507
55°	490	512	549	578	584	439
65°	322	347	392	424	432	321
75°	164	195	246	279	287	173
85°	34	62	77	75	75	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.5	1090.5	1090.5	1090.5	1090.5
2.5°	1091.5	1091.5	1086.6	1091.5	1092.5
5°	1085.6	1087.6	1082.7	1088.6	1089.6
7.5°	1079.7	1079.7	1076.7	1082.7	1083.6
10°	1068.8	1069.8	1068.8	1075.8	1076.7
12.5°	1055.0	1057.0	1058.0	1064.9	1065.9
15°	1038.3	1041.2	1043.2	1052.1	1054.1
17.5°	1019.5	1022.5	1027.4	1037.3	1039.3
20°	996.9	1000.8	1006.7	1019.5	1022.5
22.5°	972.2	976.2	986.0	997.9	1002.8
25°	943.6	951.5	961.4	977.1	980.1
27.5°	915.0	921.9	934.7	951.5	955.5
30°	881.5	892.4	908.1	924.9	928.8
32.5°	849.0	859.8	878.5	896.3	901.2
35°	815.4	825.3	845.0	865.7	871.6
37.5°	777.0	789.8	811.5	832.2	838.1
40°	736.6	752.3	777.0	798.7	805.6
42.5°	698.1	714.9	739.5	763.2	771.1
45°	657.7	673.5	703.0	729.7	735.6
47.5°	616.3	634.0	665.6	692.2	702.0
50°	574.9	593.6	627.1	654.7	660.6
52.5°	533.4	553.2	588.7	618.2	621.2
55°	490.1	511.7	549.2	577.8	583.7
57.5°	450.6	469.3	509.8	539.4	546.3
60°	407.2	427.9	471.3	498.9	507.8
62.5°	365.8	387.5	432.9	460.5	468.4
65°	322.4	347.1	391.5	424.0	431.9
67.5°	285.0	308.6	356.0	387.5	395.4
70°	241.6	268.2	318.5	351.0	358.9
72.5°	204.1	231.7	282.0	313.6	325.4
75°	163.7	195.2	245.5	279.0	286.9
77.5°	124.2	160.7	212.0	237.6	237.6
80°	88.7	127.2	174.5	186.4	188.3
82.5°	58.2	95.6	129.2	128.2	128.2
85°	33.5	62.1	76.9	74.9	74.9
87.5°	12.8	25.6	27.6	27.6	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)