

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: P276554

Luminaire Tested: **24CZ2-30-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276554
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2944.2 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

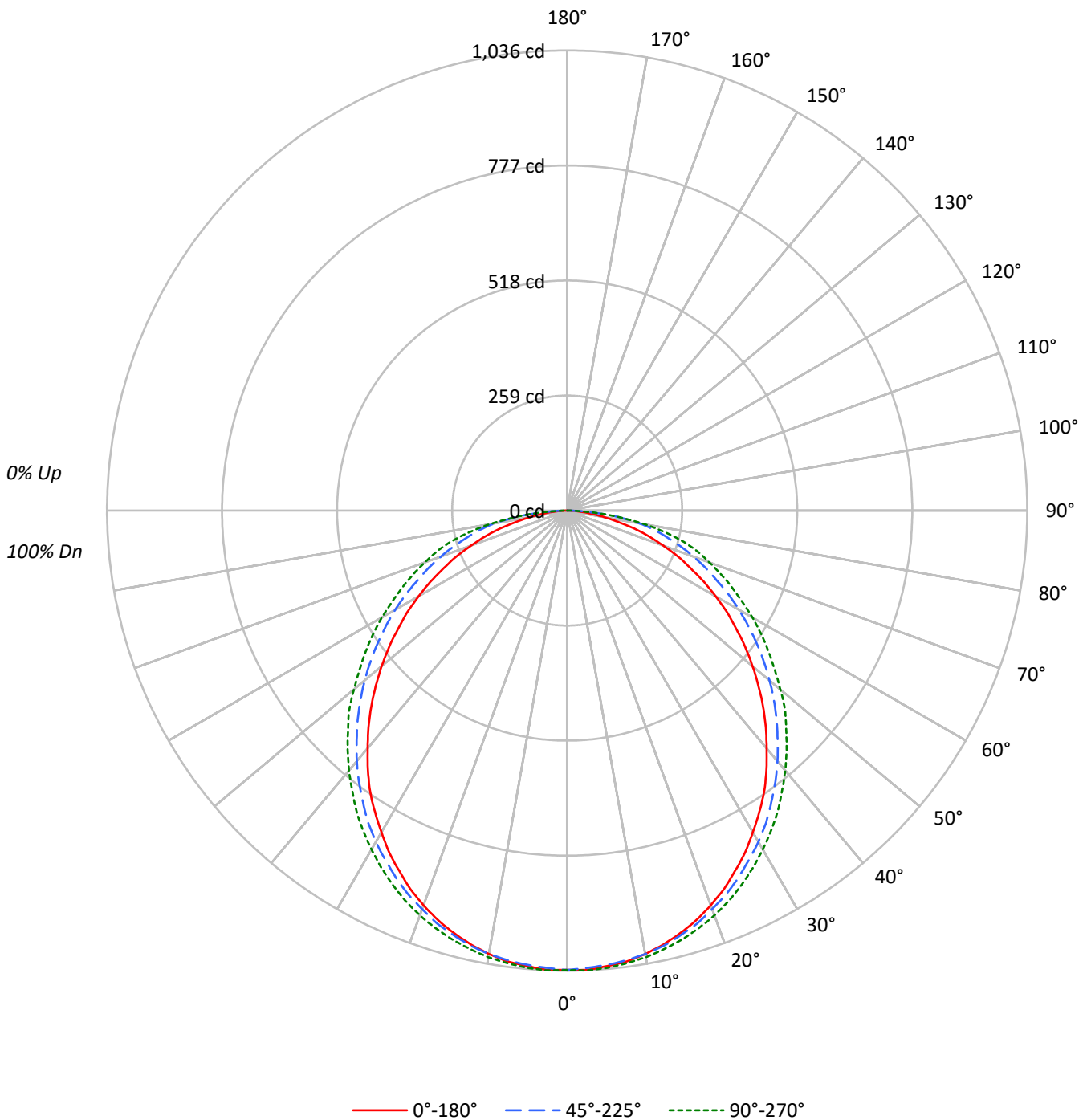
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1392	1392	1392
5°	1391	1387	1396
10°	1385	1385	1395
15°	1372	1378	1393
20°	1354	1367	1389
25°	1329	1354	1380
30°	1299	1338	1369
35°	1270	1316	1358
40°	1227	1294	1342
45°	1187	1269	1328
50°	1141	1245	1312
55°	1090	1222	1299
60°	1039	1203	1296
65°	974	1182	1304
70°	901	1188	1339
75°	807	1211	1415
80°	652	1282	1384
85°	491	1125	1098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.3
10°-20°	279.8	9.5
20°-30°	420.6	14.3
30°-40°	501.0	17.0
40°-50°	512.7	17.4
50°-60°	461.6	15.7
60°-70°	362.5	12.3
70°-80°	235.3	8.0
80°-90°	72.8	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°	798.3	27.1
0°-40°	1299.3	44.1
0°-60°	2273.7	77.2
0°-90°	2944.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1030	1032	1027	1032	1033	98
15°	985	988	989	998	1000	278
25°	895	902	912	927	930	412
35°	773	783	802	821	827	482
45°	624	639	667	692	698	481
55°	465	485	521	548	554	417
65°	306	329	371	402	410	304
75°	155	185	233	265	272	164
85°	32	59	73	71	71	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.3	1034.3	1034.3	1034.3	1034.3
2.5°	1035.3	1035.3	1030.6	1035.3	1036.2
5°	1029.6	1031.5	1026.8	1032.5	1033.4
7.5°	1024.0	1024.0	1021.2	1026.8	1027.8
10°	1013.7	1014.7	1013.7	1020.3	1021.2
12.5°	1000.7	1002.5	1003.5	1010.0	1010.9
15°	984.8	987.6	989.4	997.8	999.7
17.5°	967.0	969.8	974.5	983.8	985.7
20°	945.5	949.2	954.8	967.0	969.8
22.5°	922.1	925.8	935.2	946.4	951.1
25°	895.0	902.5	911.8	926.8	929.6
27.5°	867.9	874.4	886.6	902.5	906.2
30°	836.1	846.3	861.3	877.2	880.9
32.5°	805.2	815.5	833.3	850.1	854.8
35°	773.4	782.8	801.5	821.1	826.7
37.5°	736.9	749.1	769.7	789.3	794.9
40°	698.6	713.6	736.9	757.5	764.1
42.5°	662.1	678.0	701.4	723.8	731.3
45°	623.8	638.7	666.8	692.0	697.7
47.5°	584.5	601.3	631.3	656.5	665.9
50°	545.2	563.0	594.8	621.0	626.6
52.5°	505.9	524.6	558.3	586.4	589.2
55°	464.8	485.4	520.9	548.0	553.6
57.5°	427.4	445.2	483.5	511.5	518.1
60°	386.2	405.9	447.0	473.2	481.6
62.5°	347.0	367.5	410.5	436.7	444.2
65°	305.8	329.2	371.3	402.1	409.6
67.5°	270.3	292.7	337.6	367.5	375.0
70°	229.1	254.4	302.1	332.9	340.4
72.5°	193.6	219.8	267.5	297.4	308.6
75°	155.2	185.2	232.9	264.7	272.1
77.5°	117.8	152.4	201.1	225.4	225.4
80°	84.2	120.6	165.5	176.8	178.6
82.5°	55.2	90.7	122.5	121.6	121.6
85°	31.8	58.9	72.9	71.1	71.1
87.5°	12.2	24.3	26.2	26.2	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)