

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: P263251

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2900.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

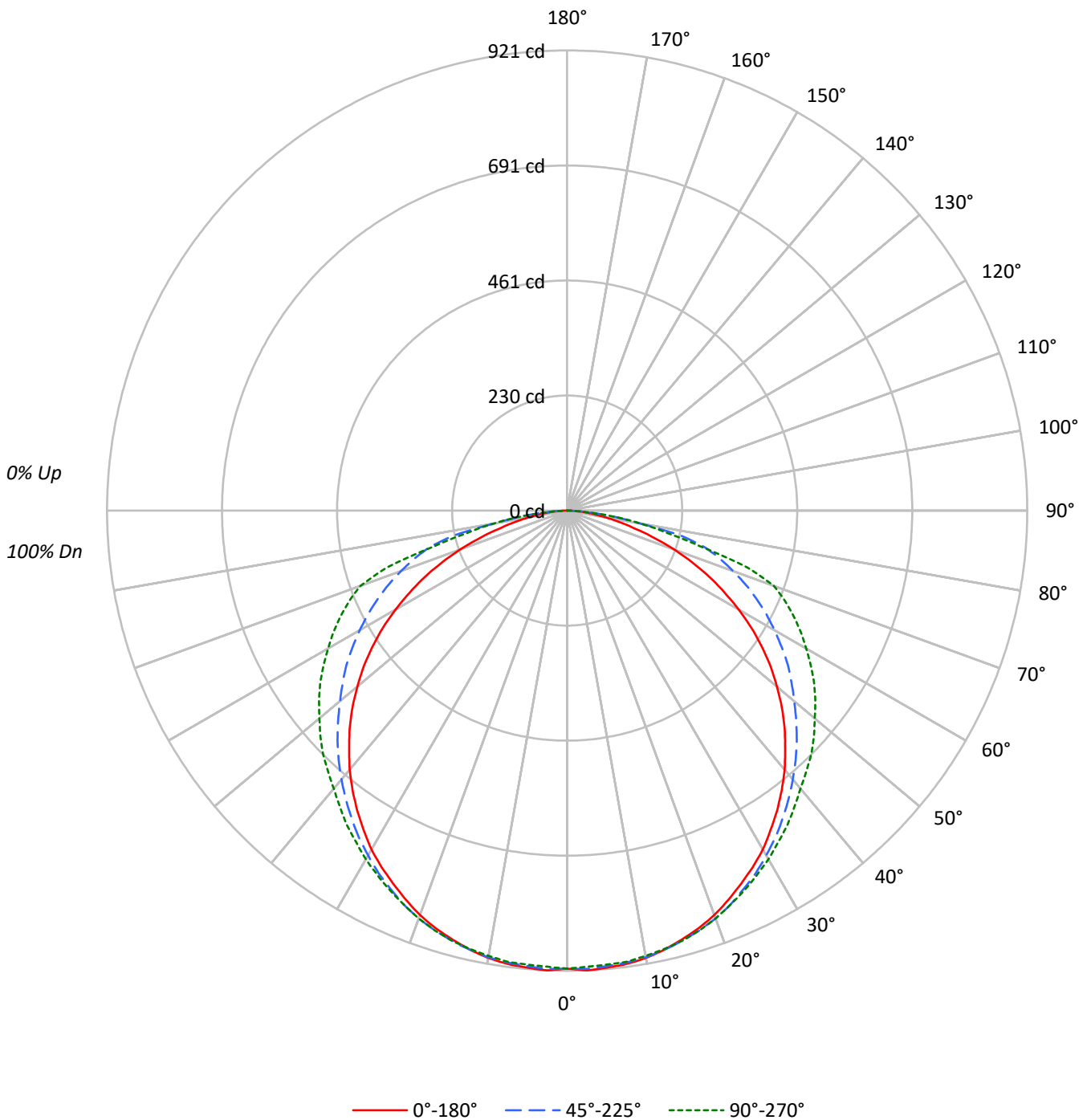
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1233	1233	1233
5°	1240	1236	1232
10°	1242	1240	1236
15°	1237	1242	1242
20°	1233	1244	1244
25°	1223	1241	1245
30°	1217	1238	1252
35°	1203	1235	1262
40°	1189	1234	1276
45°	1172	1237	1314
50°	1147	1242	1355
55°	1117	1265	1416
60°	1068	1290	1487
65°	1002	1330	1593
70°	896	1391	1733
75°	740	1487	1433
80°	604	1149	1161
85°	486	763	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.0
10°-20°	251.2	8.7
20°-30°	384.0	13.2
30°-40°	469.6	16.2
40°-50°	502.5	17.3
50°-60°	481.2	16.6
60°-70°	407.0	14.0
70°-80°	258.0	8.9
80°-90°	59.4	2.0
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°	722.3	24.9
0°-40°	1191.9	41.1
0°-60°	2175.6	75.0
0°-90°	2900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	918	914	915	914	912	87
15°	888	887	891	891	891	251
25°	824	824	836	839	839	380
35°	732	737	752	762	768	458
45°	616	626	650	677	691	474
55°	476	491	539	584	604	425
65°	315	344	418	475	500	310
75°	142	201	286	285	276	155
85°	32	48	49	45	46	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.7	916.7	916.7	916.7	916.7
2.5°	921.2	916.7	918.2	916.7	913.7
5°	918.2	913.7	915.2	913.7	912.3
7.5°	915.2	910.8	912.3	910.8	910.8
10°	909.3	904.8	907.8	906.3	904.8
12.5°	900.3	897.3	900.3	898.8	898.8
15°	888.3	886.8	891.3	891.3	891.3
17.5°	876.3	874.8	880.8	880.8	880.8
20°	861.3	859.8	868.8	868.8	868.8
22.5°	843.3	841.8	853.8	853.8	853.8
25°	823.9	823.9	835.9	838.9	838.9
27.5°	804.4	804.4	817.9	822.4	822.4
30°	783.4	783.4	796.9	802.9	805.9
32.5°	758.0	761.0	775.9	783.4	786.4
35°	732.5	737.0	752.0	762.5	768.4
37.5°	705.5	710.0	728.0	740.0	747.5
40°	677.1	683.1	702.5	717.5	726.5
42.5°	645.6	654.6	677.1	696.5	708.5
45°	615.7	626.1	650.1	677.1	690.6
47.5°	582.7	594.7	621.6	656.1	669.6
50°	548.2	560.2	593.2	632.1	647.1
52.5°	513.8	527.3	566.2	608.2	626.1
55°	476.3	491.3	539.3	584.2	603.7
57.5°	437.4	455.4	509.3	557.2	578.2
60°	397.0	419.4	479.3	530.3	552.7
62.5°	355.0	382.0	449.4	503.3	527.3
65°	314.6	344.5	417.9	474.8	500.3
67.5°	271.1	308.6	386.5	447.9	471.9
70°	227.7	271.1	353.5	416.4	440.4
72.5°	184.2	236.7	320.6	377.5	377.5
75°	142.3	200.7	286.1	284.6	275.6
77.5°	107.9	167.8	235.2	200.7	202.2
80°	77.9	134.8	148.3	148.3	149.8
82.5°	52.4	103.4	95.9	94.4	97.4
85°	31.5	47.9	49.4	44.9	46.4
87.5°	15.0	16.5	13.5	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)