

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: P263491

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263491
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-LD5-50SE-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 75.6 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

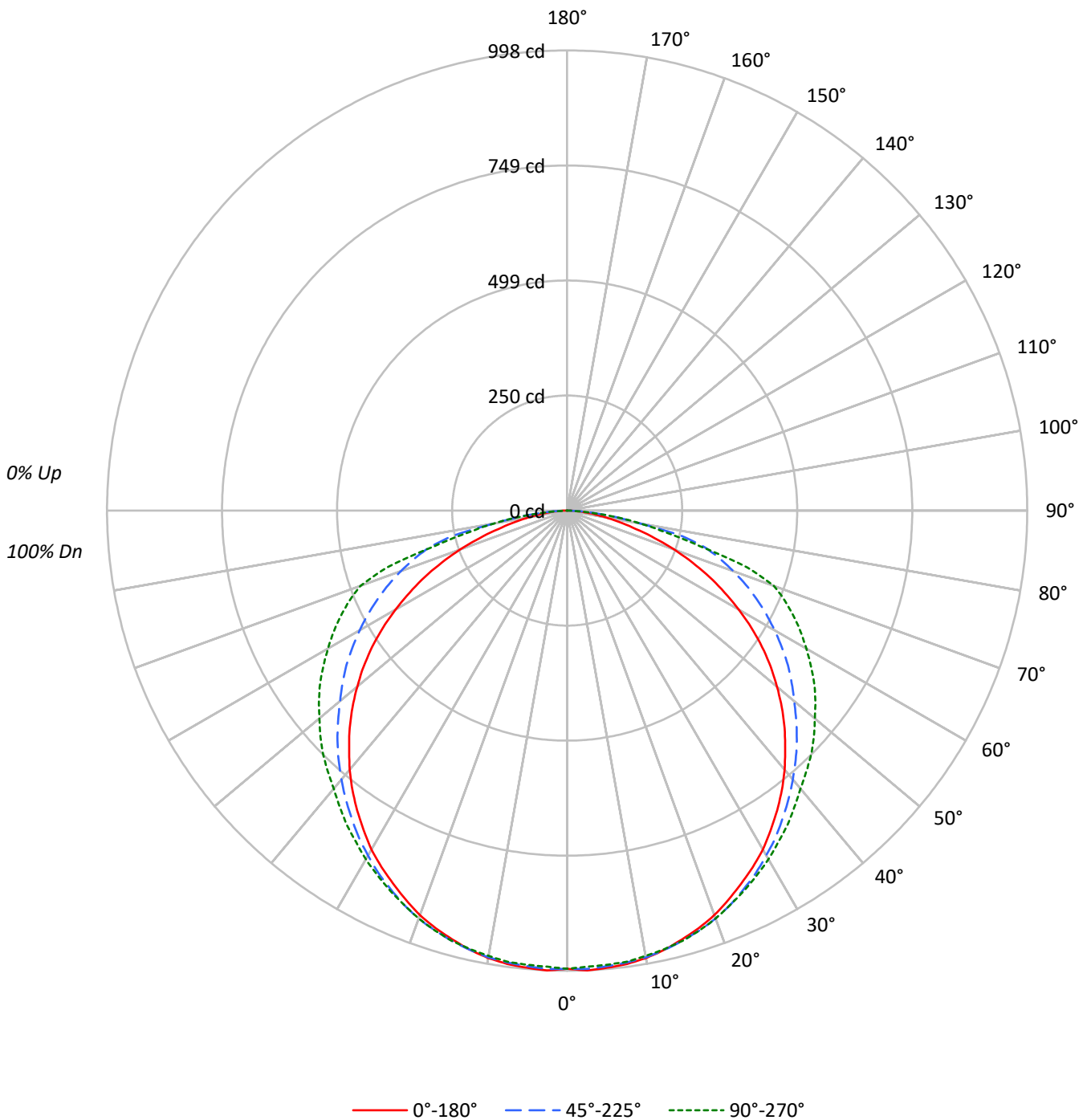
Input Watts (W): 41.571
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1337	1337	1337
5°	1344	1340	1335
10°	1346	1344	1340
15°	1341	1346	1346
20°	1337	1348	1348
25°	1326	1345	1350
30°	1319	1342	1357
35°	1304	1339	1368
40°	1289	1337	1383
45°	1270	1341	1424
50°	1244	1346	1468
55°	1211	1371	1535
60°	1158	1398	1612
65°	1085	1442	1726
70°	971	1507	1878
75°	802	1612	1553
80°	654	1245	1258
85°	526	827	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.0
10°-20°	272.3	8.7
20°-30°	416.2	13.2
30°-40°	509.0	16.2
40°-50°	544.6	17.3
50°-60°	521.5	16.6
60°-70°	441.1	14.0
70°-80°	279.6	8.9
80°-90°	64.3	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°	782.8	24.9
0°-40°	1291.8	41.1
0°-60°	2357.9	75.0
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	995	990	992	990	989	95
15°	963	961	966	966	966	272
25°	893	893	906	909	909	412
35°	794	799	815	826	833	497
45°	667	679	705	734	748	514
55°	516	532	584	633	654	460
65°	341	373	453	515	542	336
75°	154	218	310	308	299	168
85°	34	52	54	49	50	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.6	993.6	993.6	993.6	993.6
2.5°	998.4	993.6	995.2	993.6	990.3
5°	995.2	990.3	991.9	990.3	988.7
7.5°	991.9	987.1	988.7	987.1	987.1
10°	985.4	980.6	983.8	982.2	980.6
12.5°	975.7	972.5	975.7	974.1	974.1
15°	962.7	961.1	966.0	966.0	966.0
17.5°	949.7	948.1	954.6	954.6	954.6
20°	933.5	931.9	941.6	941.6	941.6
22.5°	914.0	912.4	925.4	925.4	925.4
25°	892.9	892.9	905.9	909.1	909.1
27.5°	871.8	871.8	886.4	891.3	891.3
30°	849.1	849.1	863.7	870.2	873.4
32.5°	821.5	824.7	841.0	849.1	852.3
35°	793.9	798.7	815.0	826.3	832.8
37.5°	764.7	769.5	789.0	802.0	810.1
40°	733.8	740.3	761.4	777.6	787.4
42.5°	699.7	709.5	733.8	754.9	767.9
45°	667.2	678.6	704.6	733.8	748.4
47.5°	631.5	644.5	673.7	711.1	725.7
50°	594.2	607.2	642.9	685.1	701.3
52.5°	556.8	571.5	613.7	659.1	678.6
55°	516.3	532.5	584.4	633.2	654.3
57.5°	474.1	493.5	552.0	603.9	626.7
60°	430.2	454.6	519.5	574.7	599.1
62.5°	384.8	414.0	487.0	545.5	571.5
65°	340.9	373.4	452.9	514.6	542.2
67.5°	293.8	334.4	418.9	485.4	511.4
70°	246.8	293.8	383.1	451.3	477.3
72.5°	199.7	256.5	347.4	409.1	409.1
75°	154.2	217.5	310.1	308.5	298.7
77.5°	116.9	181.8	254.9	217.5	219.2
80°	84.4	146.1	160.7	160.7	162.3
82.5°	56.8	112.0	103.9	102.3	105.5
85°	34.1	52.0	53.6	48.7	50.3
87.5°	16.2	17.9	14.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)