

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: P263342

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263342
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-LD5-45SE-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995.0 lumens
Efficiency: N/A
Efficacy: 84.7 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

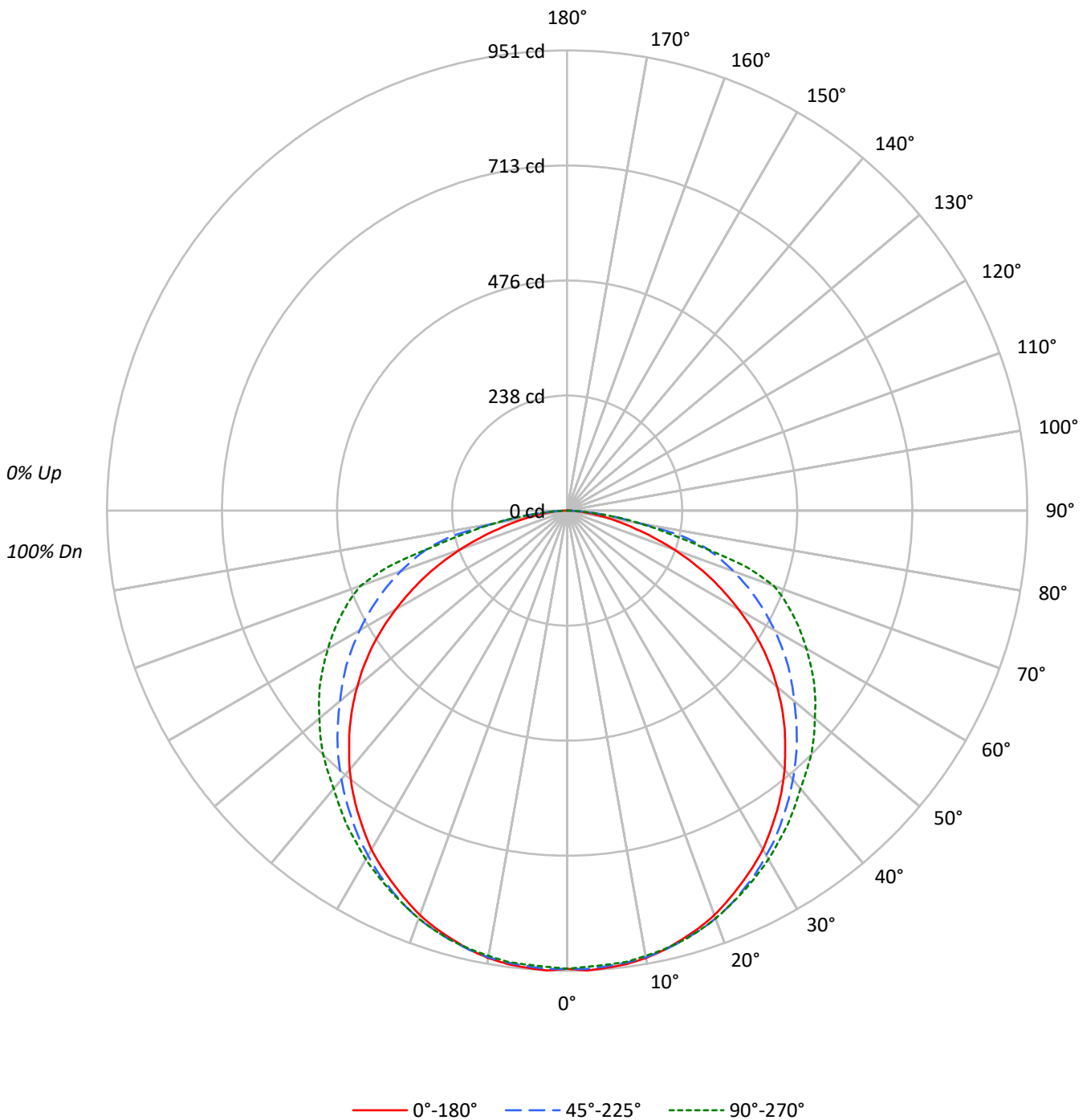
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1274	1274	1274
5°	1281	1277	1272
10°	1283	1281	1277
15°	1278	1282	1282
20°	1274	1285	1285
25°	1263	1281	1286
30°	1257	1279	1293
35°	1243	1276	1304
40°	1228	1274	1318
45°	1210	1278	1357
50°	1185	1282	1399
55°	1154	1306	1462
60°	1103	1332	1536
65°	1034	1374	1645
70°	925	1436	1789
75°	764	1536	1480
80°	623	1187	1199
85°	502	789	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.0
10°-20°	259.5	8.7
20°-30°	396.6	13.2
30°-40°	485.0	16.2
40°-50°	519.0	17.3
50°-60°	496.9	16.6
60°-70°	420.4	14.0
70°-80°	266.5	8.9
80°-90°	61.3	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°	745.9	24.9
0°-40°	1231.0	41.1
0°-60°	2246.9	75.0
0°-90°	2995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	948	944	945	944	942	90
15°	917	916	920	920	920	259
25°	851	851	863	866	866	393
35°	756	761	777	787	794	473
45°	636	647	671	699	713	490
55°	492	507	557	603	623	439
65°	325	356	432	490	517	320
75°	147	207	296	294	285	160
85°	32	50	51	46	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	951.4	946.8	948.3	946.8	943.7
5°	948.3	943.7	945.2	943.7	942.1
7.5°	945.2	940.6	942.1	940.6	940.6
10°	939.0	934.4	937.5	935.9	934.4
12.5°	929.8	926.7	929.8	928.2	928.2
15°	917.4	915.8	920.5	920.5	920.5
17.5°	905.0	903.5	909.6	909.6	909.6
20°	889.5	888.0	897.3	897.3	897.3
22.5°	871.0	869.4	881.8	881.8	881.8
25°	850.9	850.9	863.2	866.3	866.3
27.5°	830.7	830.7	844.7	849.3	849.3
30°	809.1	809.1	823.0	829.2	832.3
32.5°	782.8	785.9	801.4	809.1	812.2
35°	756.5	761.1	776.6	787.4	793.6
37.5°	728.6	733.3	751.9	764.2	772.0
40°	699.3	705.4	725.6	741.0	750.3
42.5°	666.8	676.0	699.3	719.4	731.7
45°	635.8	646.7	671.4	699.3	713.2
47.5°	601.8	614.2	642.0	677.6	691.5
50°	566.2	578.6	612.6	652.8	668.3
52.5°	530.6	544.6	584.8	628.1	646.7
55°	492.0	507.4	556.9	603.3	623.4
57.5°	451.7	470.3	526.0	575.5	597.1
60°	410.0	433.2	495.0	547.6	570.9
62.5°	366.6	394.5	464.1	519.8	544.6
65°	324.9	355.8	431.6	490.4	516.7
67.5°	280.0	318.7	399.1	462.6	487.3
70°	235.1	280.0	365.1	430.1	454.8
72.5°	190.3	244.4	331.1	389.8	389.8
75°	147.0	207.3	295.5	293.9	284.7
77.5°	111.4	173.3	242.9	207.3	208.8
80°	80.4	139.2	153.2	153.2	154.7
82.5°	54.1	106.7	99.0	97.5	100.6
85°	32.5	49.5	51.1	46.4	48.0
87.5°	15.5	17.0	13.9	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)