

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: P263088

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263088
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-L83050-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: 2969.0 lumens
Efficiency: N/A
Efficacy: 94.5 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

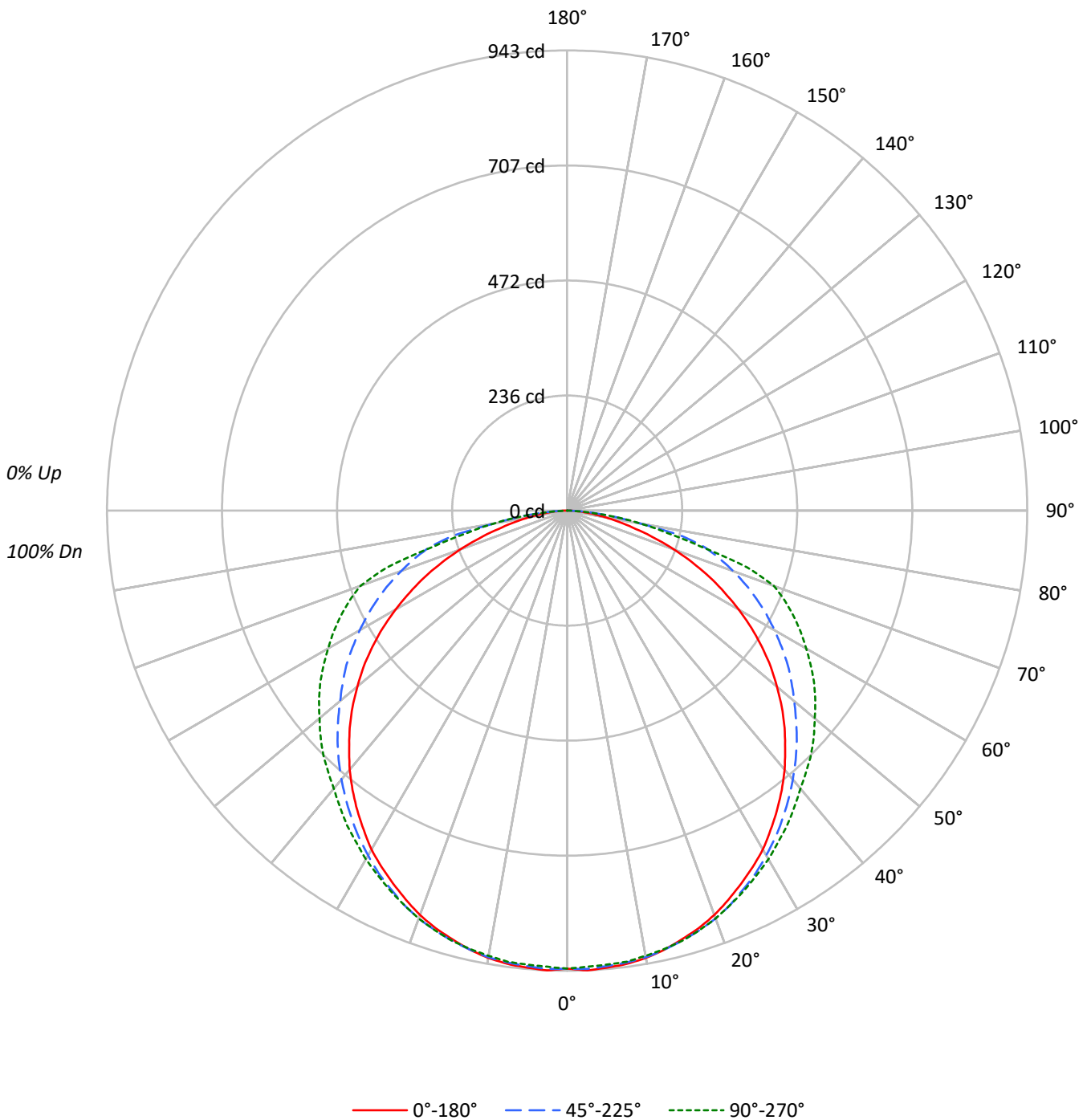
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1263	1263	1263
5°	1270	1266	1261
10°	1272	1270	1266
15°	1267	1271	1271
20°	1263	1274	1274
25°	1252	1270	1275
30°	1246	1268	1282
35°	1232	1265	1292
40°	1218	1263	1306
45°	1199	1267	1345
50°	1175	1271	1387
55°	1144	1295	1450
60°	1094	1320	1523
65°	1025	1362	1631
70°	917	1424	1774
75°	757	1523	1467
80°	618	1176	1189
85°	497	781	733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.0
10°-20°	257.2	8.7
20°-30°	393.1	13.2
30°-40°	480.8	16.2
40°-50°	514.5	17.3
50°-60°	492.6	16.6
60°-70°	416.7	14.0
70°-80°	264.2	8.9
80°-90°	60.8	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°	739.5	24.9
0°-40°	1220.3	41.1
0°-60°	2227.3	75.0
0°-90°	2969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	940	936	937	936	934	89
15°	909	908	912	912	912	257
25°	844	844	856	859	859	389
35°	750	754	770	781	787	469
45°	630	641	666	693	707	486
55°	488	503	552	598	618	435
65°	322	353	428	486	512	317
75°	146	206	293	291	282	158
85°	32	49	51	46	48	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.6	938.6	938.6	938.6	938.6
2.5°	943.2	938.6	940.1	938.6	935.5
5°	940.1	935.5	937.0	935.5	934.0
7.5°	937.0	932.4	934.0	932.4	932.4
10°	930.9	926.3	929.4	927.8	926.3
12.5°	921.7	918.6	921.7	920.2	920.2
15°	909.4	907.9	912.5	912.5	912.5
17.5°	897.1	895.6	901.8	901.8	901.8
20°	881.8	880.3	889.5	889.5	889.5
22.5°	863.4	861.9	874.1	874.1	874.1
25°	843.5	843.5	855.7	858.8	858.8
27.5°	823.5	823.5	837.3	841.9	841.9
30°	802.1	802.1	815.9	822.0	825.1
32.5°	776.0	779.1	794.4	802.1	805.1
35°	749.9	754.5	769.9	780.6	786.7
37.5°	722.3	726.9	745.3	757.6	765.3
40°	693.2	699.3	719.3	734.6	743.8
42.5°	661.0	670.2	693.2	713.1	725.4
45°	630.3	641.0	665.6	693.2	707.0
47.5°	596.6	608.8	636.4	671.7	685.5
50°	561.3	573.6	607.3	647.2	662.5
52.5°	526.0	539.8	579.7	622.6	641.0
55°	487.7	503.0	552.1	598.1	618.0
57.5°	447.8	466.2	521.4	570.5	592.0
60°	406.4	429.4	490.7	542.9	565.9
62.5°	363.5	391.1	460.1	515.3	539.8
65°	322.1	352.7	427.9	486.1	512.2
67.5°	277.6	315.9	395.7	458.5	483.1
70°	233.1	277.6	361.9	426.3	450.9
72.5°	188.6	242.3	328.2	386.5	386.5
75°	145.7	205.5	292.9	291.4	282.2
77.5°	110.4	171.8	240.8	205.5	207.0
80°	79.7	138.0	151.8	151.8	153.4
82.5°	53.7	105.8	98.1	96.6	99.7
85°	32.2	49.1	50.6	46.0	47.5
87.5°	15.3	16.9	13.8	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)