

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: P263390

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263390
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2787.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

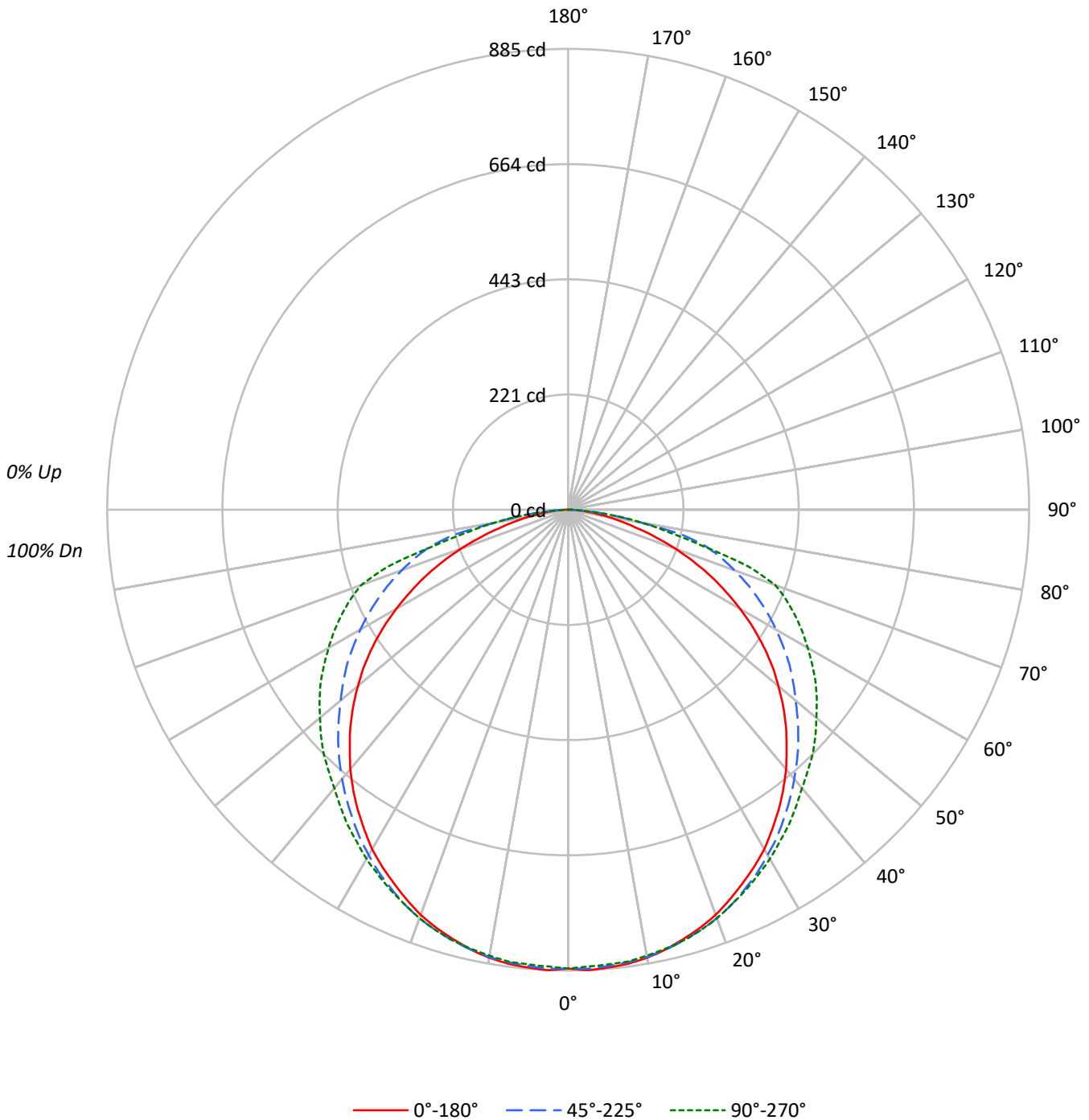
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1185	1185	1185
5°	1192	1188	1184
10°	1194	1192	1188
15°	1189	1193	1193
20°	1185	1196	1196
25°	1175	1193	1197
30°	1170	1190	1203
35°	1156	1187	1213
40°	1143	1186	1226
45°	1126	1189	1263
50°	1103	1193	1302
55°	1074	1216	1361
60°	1027	1240	1429
65°	962	1279	1531
70°	861	1336	1665
75°	711	1430	1377
80°	580	1104	1116
85°	466	733	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.0
10°-20°	241.5	8.7
20°-30°	369.0	13.2
30°-40°	451.3	16.2
40°-50°	482.9	17.3
50°-60°	462.4	16.6
60°-70°	391.2	14.0
70°-80°	248.0	8.9
80°-90°	57.0	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°	694.2	24.9
0°-40°	1145.5	41.1
0°-60°	2090.8	75.0
0°-90°	2787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	882	878	880	878	877	84
15°	854	852	857	857	857	241
25°	792	792	803	806	806	365
35°	704	708	723	733	738	440
45°	592	602	625	651	664	456
55°	458	472	518	561	580	408
65°	302	331	402	456	481	298
75°	137	193	275	274	265	149
85°	30	46	48	43	45	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.0	881.0	881.0	881.0	881.0
2.5°	885.3	881.0	882.5	881.0	878.1
5°	882.5	878.1	879.6	878.1	876.7
7.5°	879.6	875.3	876.7	875.3	875.3
10°	873.8	869.5	872.4	870.9	869.5
12.5°	865.2	862.3	865.2	863.7	863.7
15°	853.7	852.2	856.6	856.6	856.6
17.5°	842.2	840.7	846.5	846.5	846.5
20°	827.8	826.3	835.0	835.0	835.0
22.5°	810.5	809.0	820.6	820.6	820.6
25°	791.8	791.8	803.3	806.2	806.2
27.5°	773.1	773.1	786.0	790.3	790.3
30°	752.9	752.9	765.9	771.6	774.5
32.5°	728.4	731.3	745.7	752.9	755.8
35°	704.0	708.3	722.7	732.7	738.5
37.5°	678.0	682.4	699.6	711.2	718.4
40°	650.7	656.4	675.2	689.6	698.2
42.5°	620.5	629.1	650.7	669.4	680.9
45°	591.7	601.7	624.8	650.7	663.6
47.5°	560.0	571.5	597.4	630.5	643.5
50°	526.9	538.4	570.1	607.5	621.9
52.5°	493.8	506.7	544.2	584.5	601.7
55°	457.8	472.2	518.2	561.4	580.2
57.5°	420.4	437.6	489.5	535.5	555.7
60°	381.5	403.1	460.7	509.6	531.2
62.5°	341.2	367.1	431.9	483.7	506.7
65°	302.3	331.1	401.6	456.3	480.8
67.5°	260.6	296.6	371.4	430.4	453.5
70°	218.8	260.6	339.7	400.2	423.2
72.5°	177.1	227.5	308.1	362.8	362.8
75°	136.8	192.9	275.0	273.5	264.9
77.5°	103.6	161.2	226.0	192.9	194.3
80°	74.9	129.6	142.5	142.5	144.0
82.5°	50.4	99.3	92.1	90.7	93.6
85°	30.2	46.1	47.5	43.2	44.6
87.5°	14.4	15.8	13.0	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)