

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: P277005

Luminaire Tested: **24CZ2-45-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2998.6 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

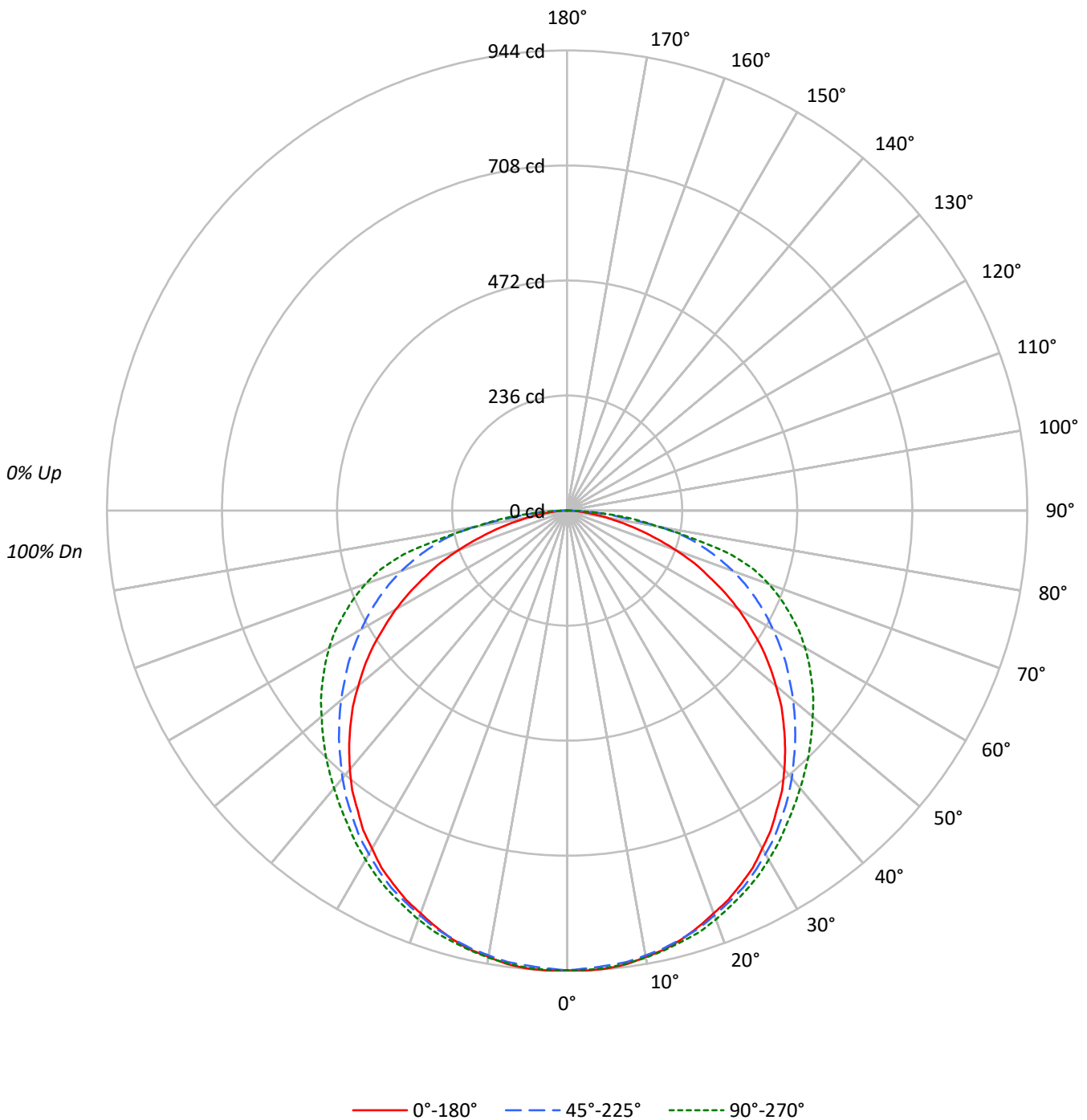
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1269	1269	1269
5°	1274	1266	1272
10°	1270	1266	1272
15°	1268	1266	1274
20°	1259	1265	1278
25°	1254	1267	1281
30°	1243	1264	1285
35°	1231	1261	1290
40°	1217	1259	1306
45°	1197	1259	1336
50°	1171	1267	1376
55°	1141	1287	1437
60°	1093	1313	1517
65°	1023	1359	1610
70°	930	1422	1732
75°	789	1500	1809
80°	622	1509	1464
85°	459	1149	1286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.0
10°-20°	257.4	8.6
20°-30°	393.7	13.1
30°-40°	481.3	16.0
40°-50°	512.9	17.1
50°-60°	490.4	16.4
60°-70°	415.5	13.9
70°-80°	279.2	9.3
80°-90°	78.8	2.6
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°	740.6	24.7
0°-40°	1221.8	40.7
0°-60°	2225.2	74.2
0°-90°	2998.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	943	942	937	942	942	90
15°	910	910	909	916	915	257
25°	845	848	854	861	863	389
35°	750	756	768	782	785	470
45°	629	640	662	690	702	485
55°	486	504	549	592	613	433
65°	321	354	427	483	506	319
75°	152	207	288	338	348	162
85°	30	61	74	80	83	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.0	943.0	943.0	943.0	943.0
2.5°	944.5	944.5	940.0	943.0	943.0
5°	943.0	941.5	937.0	941.5	941.5
7.5°	938.5	937.0	934.1	938.5	937.0
10°	929.6	929.6	926.6	931.1	931.1
12.5°	922.2	920.7	919.2	925.1	923.6
15°	910.3	910.3	908.8	916.2	914.7
17.5°	895.4	896.9	898.4	904.3	905.8
20°	879.0	882.0	883.5	892.4	892.4
22.5°	864.2	865.6	868.6	877.5	877.5
25°	844.8	847.8	853.7	861.2	862.7
27.5°	825.5	827.0	834.4	844.8	846.3
30°	800.2	804.7	813.6	825.5	827.0
32.5°	777.9	782.3	792.8	804.7	807.6
35°	749.6	755.6	767.5	782.3	785.3
37.5°	724.3	728.8	743.7	760.0	764.5
40°	693.1	702.0	716.9	736.2	743.7
42.5°	661.9	670.8	688.6	713.9	722.9
45°	629.1	639.6	661.9	690.1	702.0
47.5°	596.4	608.3	633.6	666.3	679.7
50°	559.2	574.1	605.4	642.5	657.4
52.5°	523.5	541.4	575.6	617.3	636.6
55°	486.4	504.2	548.8	592.0	612.8
57.5°	444.7	468.5	517.6	566.7	589.0
60°	406.0	428.4	487.9	541.4	563.7
62.5°	364.4	394.1	458.1	514.6	536.9
65°	321.3	354.0	426.9	483.4	505.7
67.5°	282.6	318.3	395.6	452.2	474.5
70°	236.5	281.1	361.4	417.9	440.3
72.5°	193.4	242.4	325.7	380.8	401.6
75°	151.7	206.7	288.5	337.6	348.0
77.5°	113.0	171.0	249.9	270.7	263.3
80°	80.3	136.8	194.8	184.4	188.9
82.5°	52.1	104.1	120.5	136.8	141.3
85°	29.7	61.0	74.4	80.3	83.3
87.5°	13.4	22.3	29.7	29.7	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)