

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: P275850

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1375.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

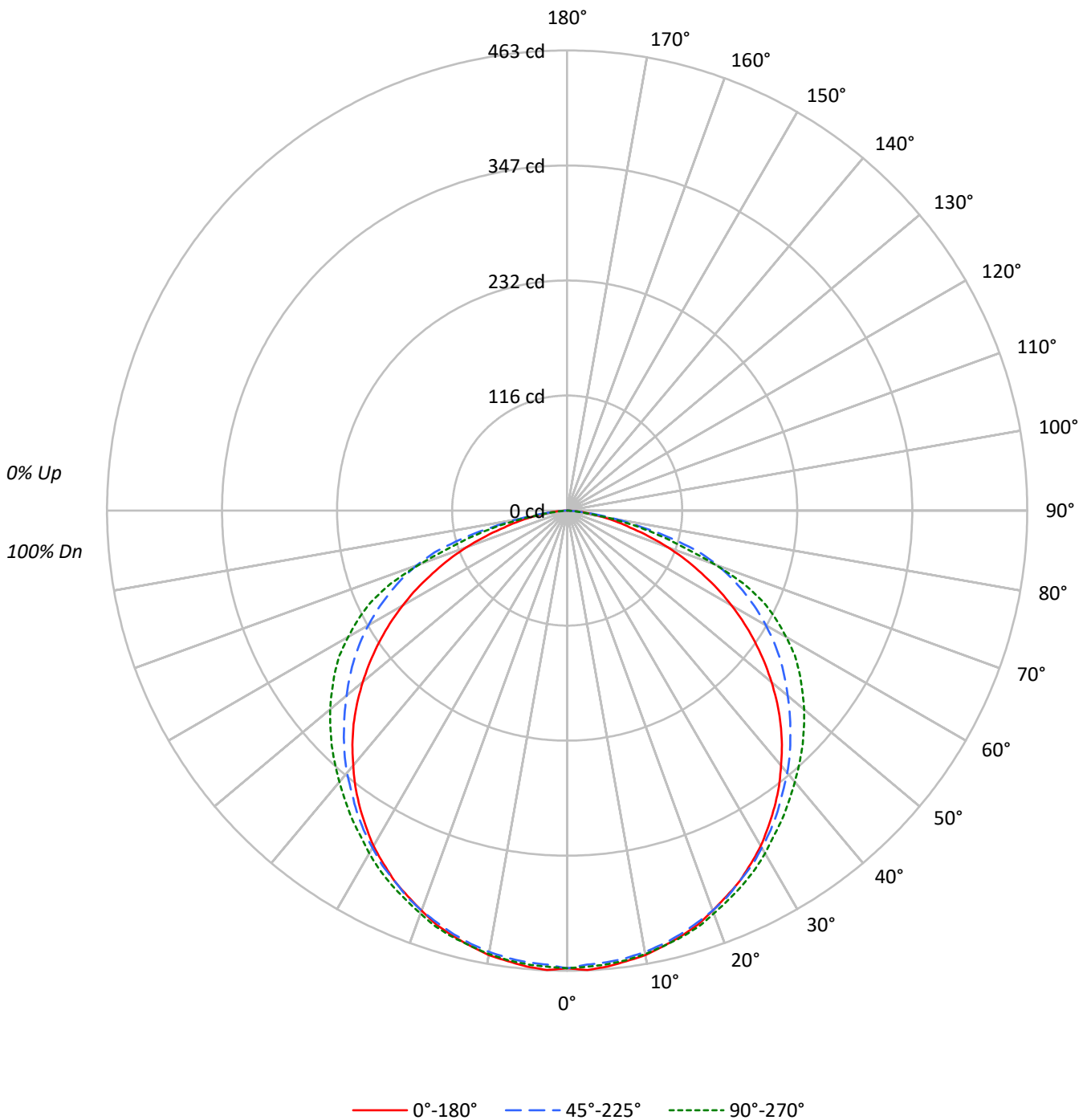
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1239	1239	1239
5°	1244	1232	1238
10°	1241	1232	1238
15°	1235	1229	1238
20°	1227	1227	1236
25°	1221	1221	1237
30°	1211	1217	1238
35°	1195	1213	1241
40°	1176	1211	1252
45°	1156	1209	1275
50°	1124	1213	1303
55°	1083	1229	1339
60°	1028	1242	1369
65°	950	1258	1387
70°	844	1267	1242
75°	681	1138	993
80°	533	798	649
85°	364	232	167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	3.2
10°-20°	125.1	9.1
20°-30°	190.4	13.8
30°-40°	231.9	16.9
40°-50°	246.1	17.9
50°-60°	232.2	16.9
60°-70°	187.5	13.6
70°-80°	101.7	7.4
80°-90°	16.5	1.2
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°	359.1	26.1
0°-40°	591.0	43.0
0°-60°	1069.3	77.8
0°-90°	1375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	459	456	459	458	44
15°	443	442	441	444	444	125
25°	411	410	411	415	416	189
35°	364	366	369	377	378	228
45°	304	308	318	330	335	234
55°	231	240	262	279	286	206
65°	149	168	198	214	218	148
75°	66	96	110	99	96	72
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	460.5	460.5	460.5	460.5	460.5
2.5°	462.7	460.5	457.3	460.5	459.4
5°	460.5	459.4	456.2	459.4	458.4
7.5°	457.3	457.3	454.1	456.2	456.2
10°	454.1	453.0	450.9	454.1	453.0
12.5°	448.7	447.6	446.6	449.8	448.7
15°	443.3	442.3	441.2	444.4	444.4
17.5°	436.9	435.8	434.8	439.1	439.1
20°	428.3	428.3	428.3	432.6	431.5
22.5°	419.7	419.7	420.8	425.1	424.0
25°	411.1	410.1	411.1	415.4	416.5
27.5°	400.4	401.5	402.6	406.8	407.9
30°	389.7	390.7	391.8	397.2	398.3
32.5°	376.8	378.9	381.1	387.5	387.5
35°	363.9	366.1	369.3	376.8	377.9
37.5°	350.0	352.1	356.4	365.0	367.1
40°	334.9	338.1	344.6	353.2	356.4
42.5°	319.9	324.2	331.7	341.4	345.7
45°	303.8	308.1	317.7	329.6	334.9
47.5°	286.6	292.0	303.8	318.8	323.1
50°	268.4	275.9	289.8	305.9	311.3
52.5°	250.1	258.7	275.9	293.1	298.4
55°	230.8	240.5	261.9	279.1	285.5
57.5°	211.5	222.2	246.9	265.1	271.6
60°	191.1	204.0	230.8	249.0	254.4
62.5°	170.7	185.7	214.7	232.9	237.2
65°	149.2	167.5	197.5	213.6	217.9
67.5°	128.8	150.3	180.3	192.2	192.2
70°	107.3	131.0	161.0	164.2	157.8
72.5°	85.9	112.7	139.6	127.7	122.4
75°	65.5	95.5	109.5	98.8	95.5
77.5°	49.4	77.3	77.3	70.8	68.7
80°	34.4	59.0	51.5	45.1	41.9
82.5°	22.5	33.3	26.8	21.5	18.2
85°	11.8	12.9	7.5	6.4	5.4
87.5°	4.3	2.1	1.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)