

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: P277130

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277130
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: 24CZ2-40-RDP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2380.8 lumens
Efficiency: N/A
Efficacy: 76.4 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

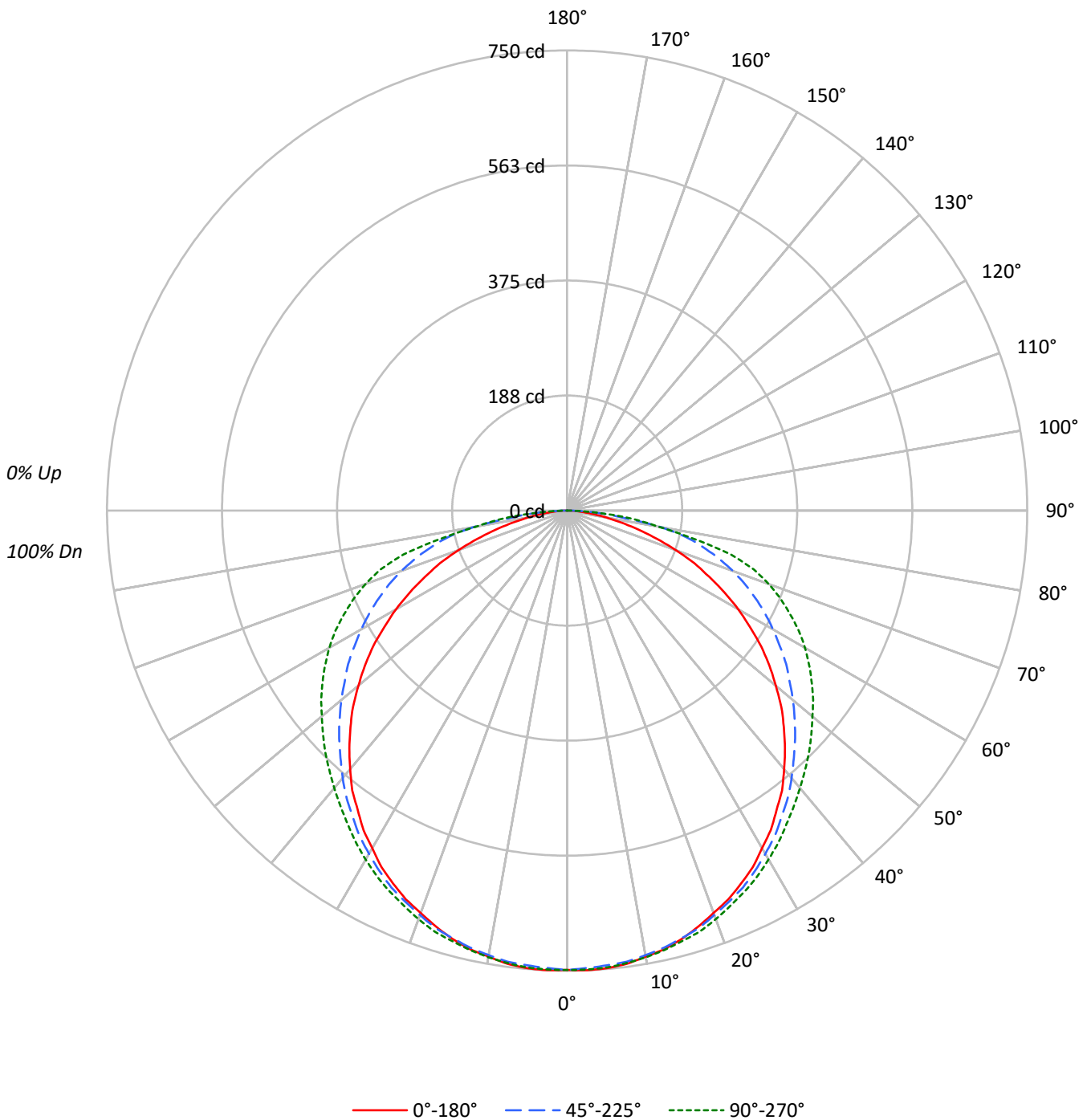
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1007	1007	1007
5°	1011	1005	1010
10°	1008	1005	1010
15°	1007	1005	1012
20°	999	1004	1015
25°	996	1006	1017
30°	987	1004	1020
35°	978	1001	1024
40°	967	1000	1037
45°	950	1000	1061
50°	929	1006	1093
55°	906	1022	1141
60°	868	1042	1204
65°	812	1079	1278
70°	739	1129	1375
75°	626	1191	1436
80°	494	1199	1162
85°	364	911	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.0
10°-20°	204.4	8.6
20°-30°	312.6	13.1
30°-40°	382.1	16.0
40°-50°	407.3	17.1
50°-60°	389.4	16.4
60°-70°	329.9	13.9
70°-80°	221.7	9.3
80°-90°	62.5	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°	588.0	24.7
0°-40°	970.1	40.7
0°-60°	1766.7	74.2
0°-90°	2380.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2380.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	749	748	744	748	748	71
15°	723	723	722	727	726	204
25°	671	673	678	684	685	309
35°	595	600	609	621	624	373
45°	500	508	526	548	557	385
55°	386	400	436	470	486	344
65°	255	281	339	384	402	253
75°	120	164	229	268	276	129
85°	24	48	59	64	66	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.7	748.7	748.7	748.7	748.7
2.5°	749.9	749.9	746.3	748.7	748.7
5°	748.7	747.5	744.0	747.5	747.5
7.5°	745.2	744.0	741.6	745.2	744.0
10°	738.1	738.1	735.7	739.3	739.3
12.5°	732.2	731.0	729.8	734.5	733.4
15°	722.7	722.7	721.5	727.4	726.3
17.5°	710.9	712.1	713.3	718.0	719.2
20°	697.9	700.3	701.5	708.6	708.6
22.5°	686.1	687.3	689.7	696.7	696.7
25°	670.8	673.1	677.8	683.8	684.9
27.5°	655.4	656.6	662.5	670.8	671.9
30°	635.3	638.9	646.0	655.4	656.6
32.5°	617.6	621.2	629.4	638.9	641.2
35°	595.2	599.9	609.4	621.2	623.5
37.5°	575.1	578.6	590.5	603.4	607.0
40°	550.3	557.4	569.2	584.6	590.5
42.5°	525.5	532.6	546.8	566.8	573.9
45°	499.5	507.8	525.5	547.9	557.4
47.5°	473.5	483.0	503.1	529.1	539.7
50°	444.0	455.8	480.6	510.2	522.0
52.5°	415.7	429.9	457.0	490.1	505.4
55°	386.2	400.3	435.8	470.0	486.5
57.5°	353.1	372.0	411.0	449.9	467.6
60°	322.4	340.1	387.3	429.9	447.6
62.5°	289.3	312.9	363.7	408.6	426.3
65°	255.1	281.1	338.9	383.8	401.5
67.5°	224.4	252.7	314.1	359.0	376.7
70°	187.8	223.2	287.0	331.8	349.6
72.5°	153.5	192.5	258.6	302.3	318.8
75°	120.5	164.1	229.1	268.1	276.3
77.5°	89.7	135.8	198.4	214.9	209.0
80°	63.8	108.6	154.7	146.4	150.0
82.5°	41.3	82.7	95.7	108.6	112.2
85°	23.6	48.4	59.0	63.8	66.1
87.5°	10.6	17.7	23.6	23.6	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)