

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: P276790

Luminaire Tested: **24CZ2-35-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276790
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: 24CZ2-35-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2399.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

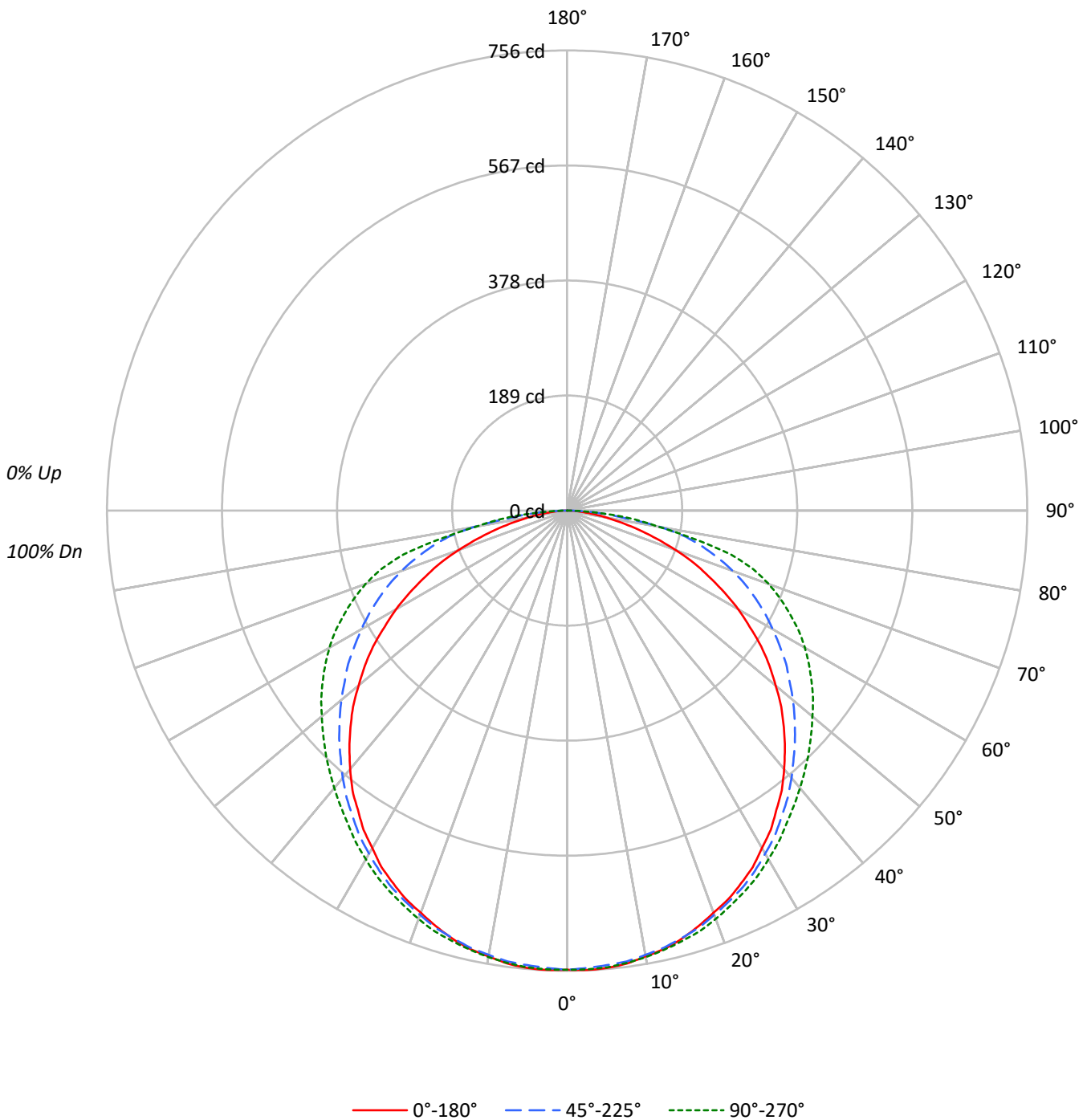
Input Watts (W): 27.31596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	1015	1015	1015
5°	1019	1013	1017
10°	1016	1013	1018
15°	1014	1013	1019
20°	1007	1012	1022
25°	1003	1014	1025
30°	995	1011	1028
35°	985	1009	1032
40°	974	1007	1045
45°	958	1008	1069
50°	937	1014	1101
55°	913	1030	1150
60°	874	1050	1214
65°	818	1087	1288
70°	744	1138	1386
75°	631	1200	1447
80°	498	1208	1171
85°	367	919	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.0
10°-20°	206.0	8.6
20°-30°	315.0	13.1
30°-40°	385.0	16.0
40°-50°	410.4	17.1
50°-60°	392.4	16.4
60°-70°	332.4	13.9
70°-80°	223.4	9.3
80°-90°	63.0	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°	592.5	24.7
0°-40°	977.5	40.7
0°-60°	1780.2	74.2
0°-90°	2399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	754	753	750	753	753	72
15°	728	728	727	733	732	205
25°	676	678	683	689	690	312
35°	600	604	614	626	628	376
45°	503	512	530	552	562	388
55°	389	403	439	474	490	347
65°	257	283	342	387	405	255
75°	121	165	231	270	278	130
85°	24	49	60	64	67	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.4	754.4	754.4	754.4	754.4
2.5°	755.6	755.6	752.0	754.4	754.4
5°	754.4	753.2	749.7	753.2	753.2
7.5°	750.8	749.7	747.3	750.8	749.7
10°	743.7	743.7	741.3	744.9	744.9
12.5°	737.8	736.6	735.4	740.1	738.9
15°	728.2	728.2	727.0	733.0	731.8
17.5°	716.3	717.5	718.7	723.5	724.7
20°	703.2	705.6	706.8	714.0	714.0
22.5°	691.4	692.5	694.9	702.1	702.1
25°	675.9	678.3	683.0	689.0	690.2
27.5°	660.4	661.6	667.6	675.9	677.1
30°	640.2	643.8	650.9	660.4	661.6
32.5°	622.3	625.9	634.2	643.8	646.1
35°	599.7	604.5	614.0	625.9	628.3
37.5°	579.5	583.1	595.0	608.1	611.6
40°	554.5	561.6	573.5	589.0	595.0
42.5°	529.5	536.7	550.9	571.2	578.3
45°	503.3	511.7	529.5	552.1	561.6
47.5°	477.2	486.7	506.9	533.1	543.8
50°	447.4	459.3	484.3	514.1	526.0
52.5°	418.9	433.1	460.5	493.8	509.3
55°	389.1	403.4	439.1	473.6	490.3
57.5°	355.8	374.8	414.1	453.4	471.2
60°	324.9	342.7	390.3	433.1	451.0
62.5°	291.5	315.3	366.5	411.7	429.6
65°	257.0	283.2	341.5	386.7	404.6
67.5°	226.1	254.6	316.5	361.7	379.6
70°	189.2	224.9	289.2	334.4	352.2
72.5°	154.7	194.0	260.6	304.6	321.3
75°	121.4	165.4	230.8	270.1	278.4
77.5°	90.4	136.8	199.9	216.6	210.6
80°	64.3	109.5	155.9	147.6	151.1
82.5°	41.6	83.3	96.4	109.5	113.0
85°	23.8	48.8	59.5	64.3	66.6
87.5°	10.7	17.8	23.8	23.8	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)