

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: P263656

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2518.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

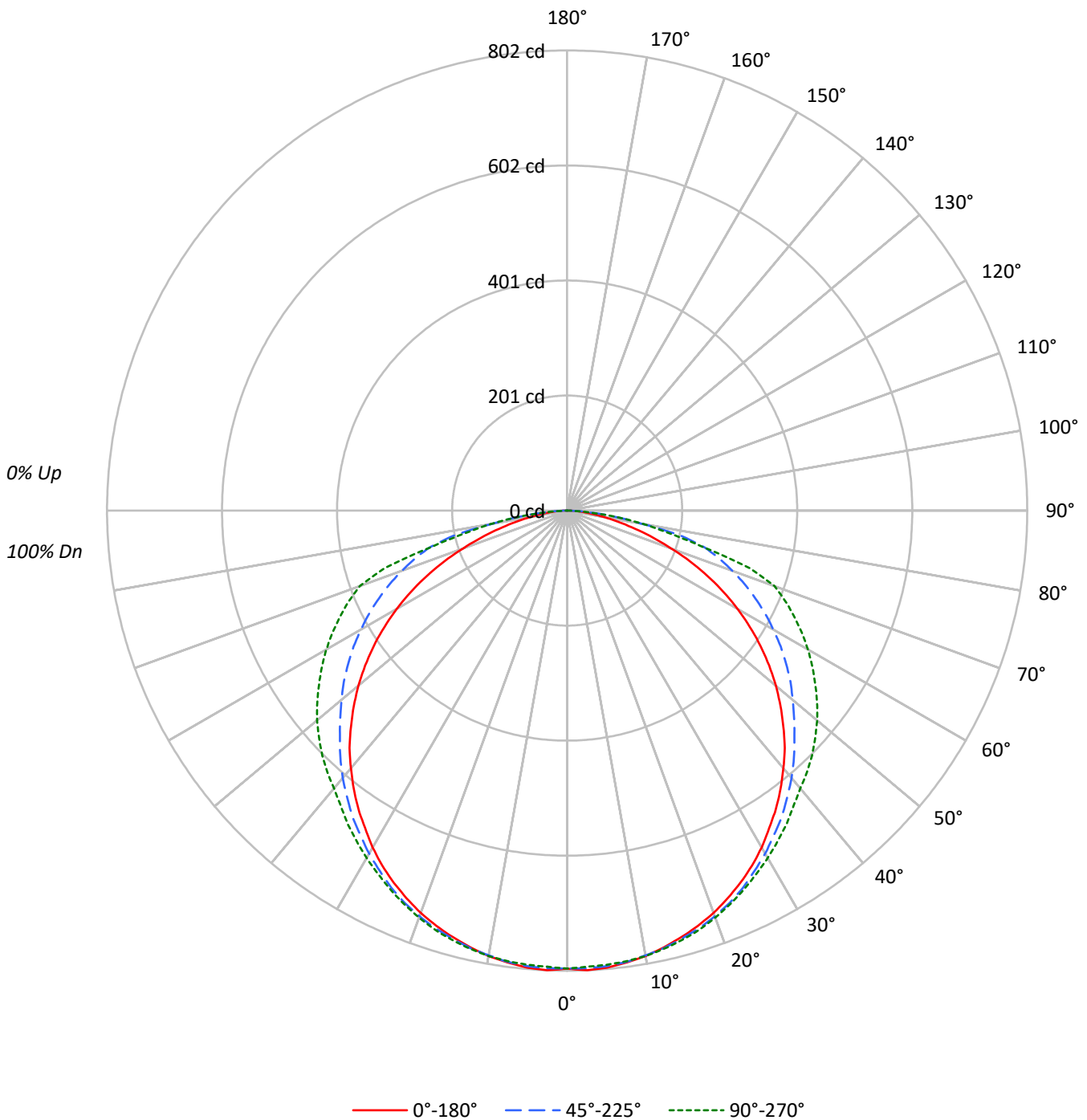
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1074	1074	1074
5°	1080	1076	1073
10°	1077	1075	1077
15°	1072	1076	1079
20°	1068	1077	1081
25°	1062	1076	1082
30°	1053	1073	1086
35°	1042	1071	1095
40°	1030	1069	1110
45°	1014	1066	1149
50°	994	1074	1191
55°	965	1093	1239
60°	924	1117	1304
65°	860	1152	1389
70°	761	1205	1511
75°	638	1289	1269
80°	509	1018	1056
85°	401	689	631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.0
10°-20°	217.9	8.7
20°-30°	332.8	13.2
30°-40°	406.9	16.2
40°-50°	435.5	17.3
50°-60°	417.7	16.6
60°-70°	352.7	14.0
70°-80°	225.4	9.0
80°-90°	53.3	2.1
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°	626.4	24.9
0°-40°	1033.3	41.0
0°-60°	1886.5	74.9
0°-90°	2518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	800	794	797	796	794	76
15°	770	767	772	775	775	217
25°	715	714	725	728	729	330
35°	635	640	652	661	667	397
45°	533	542	560	586	604	411
55°	412	425	466	508	528	367
65°	270	296	362	413	436	266
75°	123	175	248	253	244	132
85°	26	43	45	43	41	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.2	798.2	798.2	798.2	798.2
2.5°	801.9	797.0	798.2	798.2	795.7
5°	799.5	794.5	797.0	795.7	794.5
7.5°	794.5	790.8	793.3	793.3	792.0
10°	788.3	784.6	787.1	788.3	788.3
12.5°	779.6	777.2	780.9	780.9	782.1
15°	769.7	767.2	772.2	774.7	774.7
17.5°	758.6	757.3	763.5	764.8	766.0
20°	746.2	744.9	752.4	752.4	754.8
22.5°	731.3	730.1	740.0	740.0	742.5
25°	715.2	713.9	725.1	727.6	728.8
27.5°	697.8	696.6	707.7	711.5	713.9
30°	678.0	678.0	690.4	695.3	699.1
32.5°	655.7	659.4	670.6	678.0	683.0
35°	634.6	639.6	652.0	660.6	666.8
37.5°	611.1	616.0	629.7	640.8	648.2
40°	586.3	592.5	608.6	621.0	632.1
42.5°	561.5	567.7	585.0	603.6	618.5
45°	533.0	541.7	560.2	586.3	603.6
47.5°	504.5	513.1	536.7	568.9	586.3
50°	474.7	484.6	513.1	550.3	568.9
52.5°	443.7	454.9	490.8	530.5	549.1
55°	411.5	425.1	466.0	508.2	528.0
57.5°	378.0	392.9	441.3	485.9	506.9
60°	343.3	361.9	415.2	462.3	484.6
62.5°	307.4	329.7	389.2	437.5	461.1
65°	270.2	296.2	361.9	412.7	436.3
67.5°	231.8	266.5	334.7	388.0	411.5
70°	193.4	234.3	306.2	360.7	384.2
72.5°	157.4	204.5	277.6	328.5	333.4
75°	122.7	174.8	247.9	252.9	244.2
77.5°	91.7	145.0	204.5	182.2	181.0
80°	65.7	116.5	131.4	135.1	136.3
82.5°	43.4	88.0	85.5	88.0	86.8
85°	26.0	43.4	44.6	43.4	40.9
87.5°	12.4	16.1	12.4	11.2	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)