

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: P263498

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263498
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2446.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

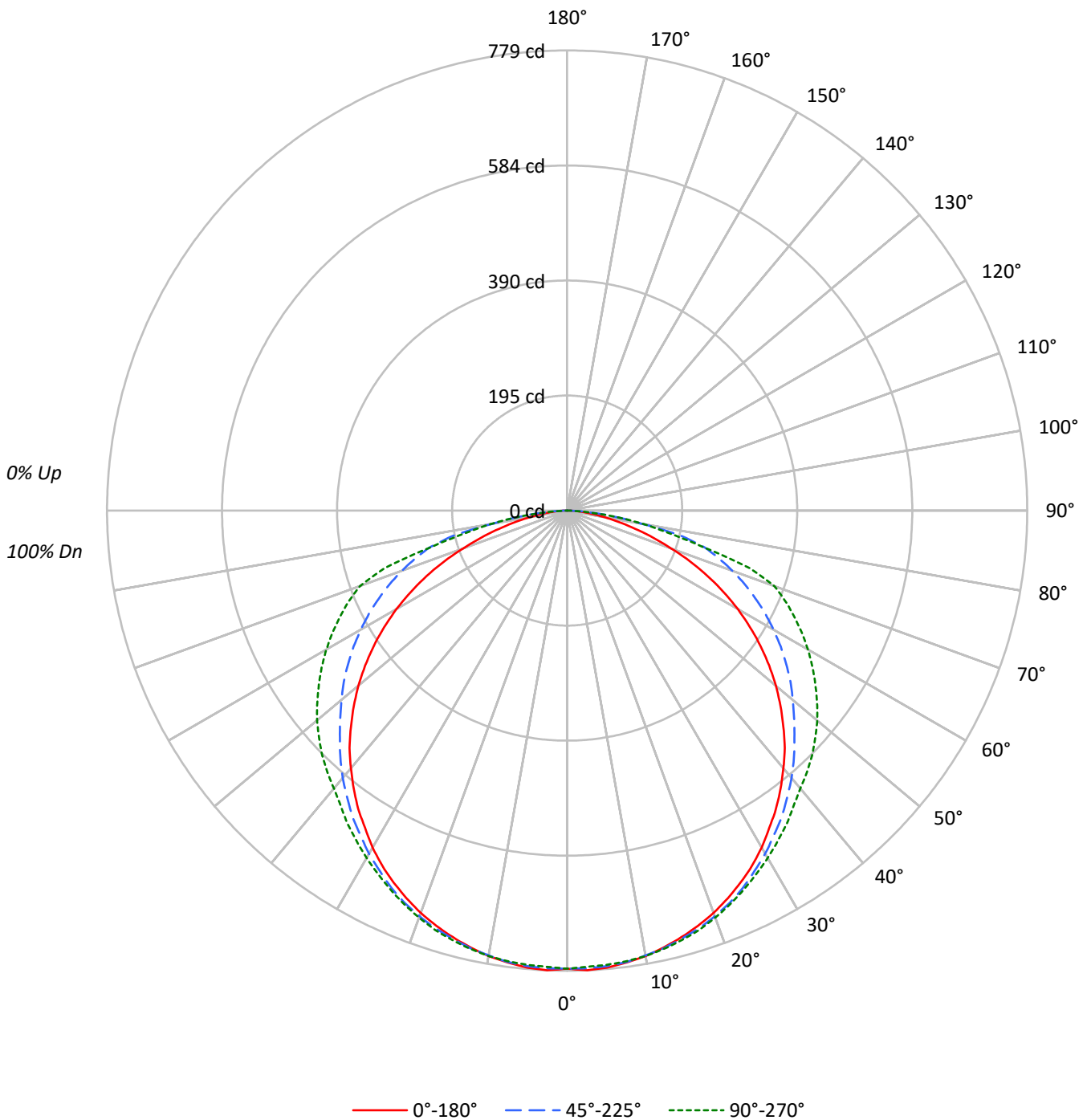
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1043	1043	1043
5°	1049	1046	1042
10°	1046	1045	1046
15°	1042	1045	1048
20°	1038	1047	1050
25°	1031	1046	1051
30°	1023	1042	1055
35°	1013	1040	1064
40°	1000	1038	1079
45°	985	1036	1116
50°	965	1043	1157
55°	938	1062	1203
60°	897	1086	1267
65°	836	1119	1349
70°	739	1170	1469
75°	620	1252	1233
80°	494	989	1026
85°	391	668	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.0
10°-20°	211.7	8.7
20°-30°	323.3	13.2
30°-40°	395.2	16.2
40°-50°	423.1	17.3
50°-60°	405.8	16.6
60°-70°	342.6	14.0
70°-80°	219.0	9.0
80°-90°	51.8	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°	608.5	24.9
0°-40°	1003.7	41.0
0°-60°	1832.6	74.9
0°-90°	2446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	777	772	774	773	772	74
15°	748	745	750	752	752	211
25°	695	694	704	707	708	320
35°	616	621	633	642	648	385
45°	518	526	544	570	586	399
55°	400	413	453	494	513	357
65°	262	288	352	401	424	259
75°	119	170	241	246	237	128
85°	25	42	43	42	40	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.4	775.4	775.4	775.4	775.4
2.5°	779.0	774.2	775.4	775.4	773.0
5°	776.6	771.8	774.2	773.0	771.8
7.5°	771.8	768.2	770.6	770.6	769.4
10°	765.8	762.2	764.6	765.8	765.8
12.5°	757.3	754.9	758.5	758.5	759.7
15°	747.7	745.3	750.1	752.5	752.5
17.5°	736.9	735.7	741.7	742.9	744.1
20°	724.8	723.6	730.9	730.9	733.3
22.5°	710.4	709.2	718.8	718.8	721.2
25°	694.7	693.5	704.4	706.8	708.0
27.5°	677.9	676.7	687.5	691.1	693.5
30°	658.6	658.6	670.7	675.5	679.1
32.5°	636.9	640.5	651.4	658.6	663.4
35°	616.5	621.3	633.3	641.8	647.8
37.5°	593.6	598.4	611.7	622.5	629.7
40°	569.5	575.5	591.2	603.2	614.1
42.5°	545.4	551.5	568.3	586.4	600.8
45°	517.7	526.2	544.2	569.5	586.4
47.5°	490.0	498.5	521.3	552.7	569.5
50°	461.1	470.8	498.5	534.6	552.7
52.5°	431.0	441.9	476.8	515.3	533.4
55°	399.7	413.0	452.7	493.7	512.9
57.5°	367.2	381.7	428.6	472.0	492.5
60°	333.5	351.6	403.4	449.1	470.8
62.5°	298.6	320.3	378.1	425.0	447.9
65°	262.5	287.8	351.6	400.9	423.8
67.5°	225.2	258.9	325.1	376.9	399.7
70°	187.8	227.6	297.4	350.4	373.3
72.5°	152.9	198.7	269.7	319.1	323.9
75°	119.2	169.8	240.8	245.6	237.2
77.5°	89.1	140.9	198.7	177.0	175.8
80°	63.8	113.2	127.6	131.2	132.4
82.5°	42.1	85.5	83.1	85.5	84.3
85°	25.3	42.1	43.3	42.1	39.7
87.5°	12.0	15.7	12.0	10.8	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)