

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: P263805

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263805
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-LD5-45-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2540.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

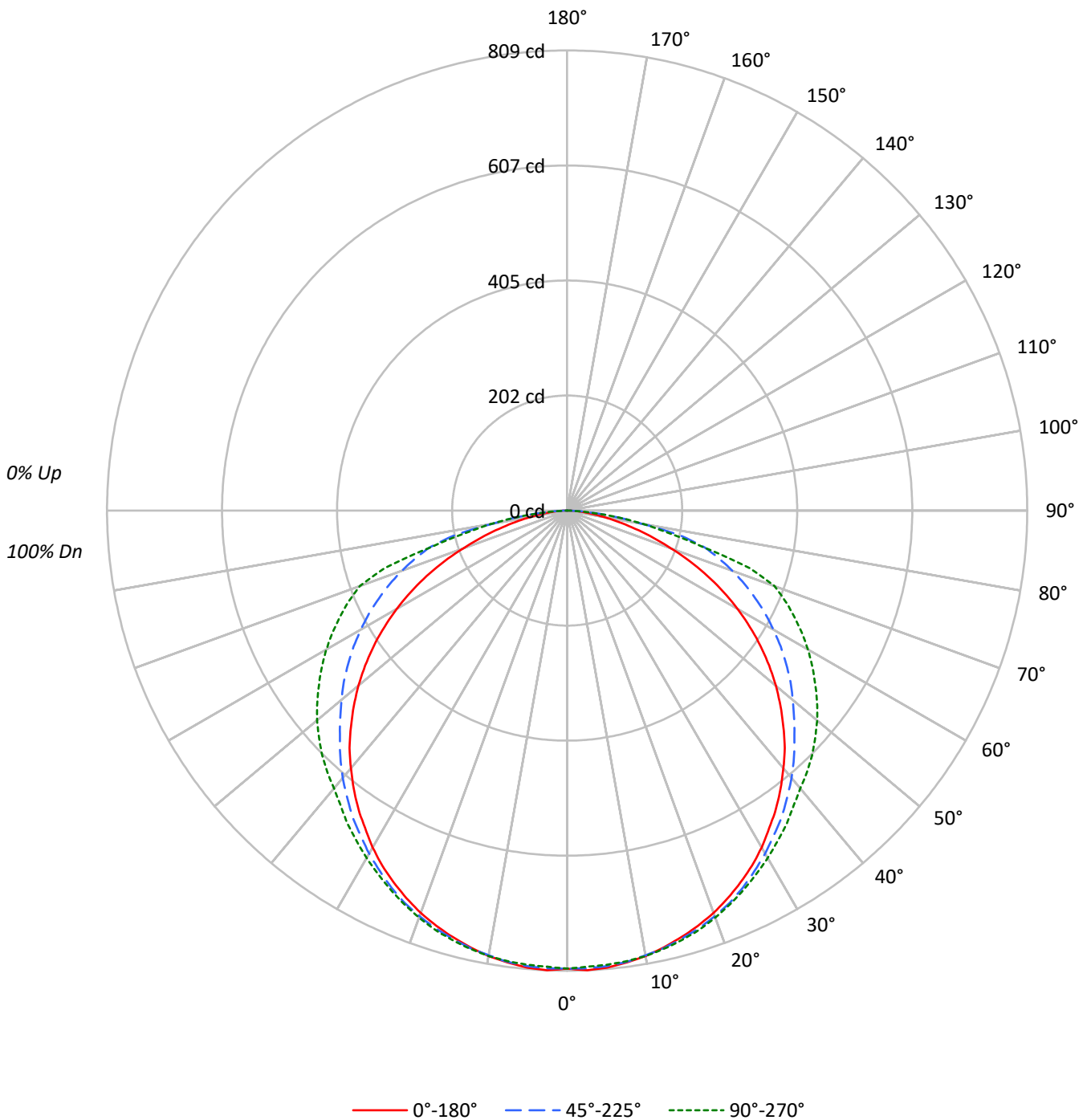
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	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°	1083	1083	1083
5°	1089	1086	1083
10°	1086	1085	1086
15°	1081	1085	1088
20°	1078	1087	1090
25°	1071	1086	1091
30°	1063	1082	1096
35°	1052	1080	1105
40°	1039	1078	1120
45°	1023	1075	1159
50°	1002	1083	1201
55°	974	1103	1249
60°	932	1127	1316
65°	868	1162	1401
70°	767	1215	1525
75°	644	1300	1280
80°	514	1027	1065
85°	406	695	638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.0
10°-20°	219.8	8.7
20°-30°	335.7	13.2
30°-40°	410.4	16.2
40°-50°	439.3	17.3
50°-60°	421.4	16.6
60°-70°	355.8	14.0
70°-80°	227.4	9.0
80°-90°	53.8	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°	631.9	24.9
0°-40°	1042.3	41.0
0°-60°	1903.0	74.9
0°-90°	2540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	806	802	804	803	802	77
15°	776	774	779	781	781	219
25°	721	720	731	734	735	332
35°	640	645	658	666	673	400
45°	538	546	565	591	609	415
55°	415	429	470	513	533	370
65°	273	299	365	416	440	269
75°	124	176	250	255	246	133
85°	26	44	45	44	41	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.2	805.2	805.2	805.2	805.2
2.5°	809.0	804.0	805.2	805.2	802.7
5°	806.5	801.5	804.0	802.7	801.5
7.5°	801.5	797.7	800.2	800.2	798.9
10°	795.2	791.4	793.9	795.2	795.2
12.5°	786.4	783.9	787.7	787.7	788.9
15°	776.4	773.9	778.9	781.4	781.4
17.5°	765.2	763.9	770.2	771.4	772.7
20°	752.7	751.4	758.9	758.9	761.4
22.5°	737.7	736.4	746.4	746.4	748.9
25°	721.4	720.2	731.4	733.9	735.2
27.5°	703.9	702.7	713.9	717.7	720.2
30°	683.9	683.9	696.4	701.4	705.2
32.5°	661.4	665.2	676.4	683.9	688.9
35°	640.2	645.2	657.7	666.4	672.7
37.5°	616.4	621.4	635.2	646.4	653.9
40°	591.4	597.6	613.9	626.4	637.7
42.5°	566.4	572.6	590.1	608.9	623.9
45°	537.6	546.4	565.1	591.4	608.9
47.5°	508.9	517.6	541.4	573.9	591.4
50°	478.9	488.9	517.6	555.1	573.9
52.5°	447.6	458.9	495.1	535.1	553.9
55°	415.1	428.9	470.1	512.6	532.6
57.5°	381.3	396.3	445.1	490.1	511.4
60°	346.3	365.1	418.9	466.4	488.9
62.5°	310.1	332.6	392.6	441.4	465.1
65°	272.6	298.8	365.1	416.4	440.1
67.5°	233.8	268.8	337.6	391.3	415.1
70°	195.0	236.3	308.8	363.8	387.6
72.5°	158.8	206.3	280.1	331.3	336.3
75°	123.8	176.3	250.1	255.1	246.3
77.5°	92.5	146.3	206.3	183.8	182.5
80°	66.3	117.5	132.5	136.3	137.5
82.5°	43.8	88.8	86.3	88.8	87.5
85°	26.3	43.8	45.0	43.8	41.3
87.5°	12.5	16.3	12.5	11.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)