

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: P263826

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263826
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-LD5-55-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3495.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

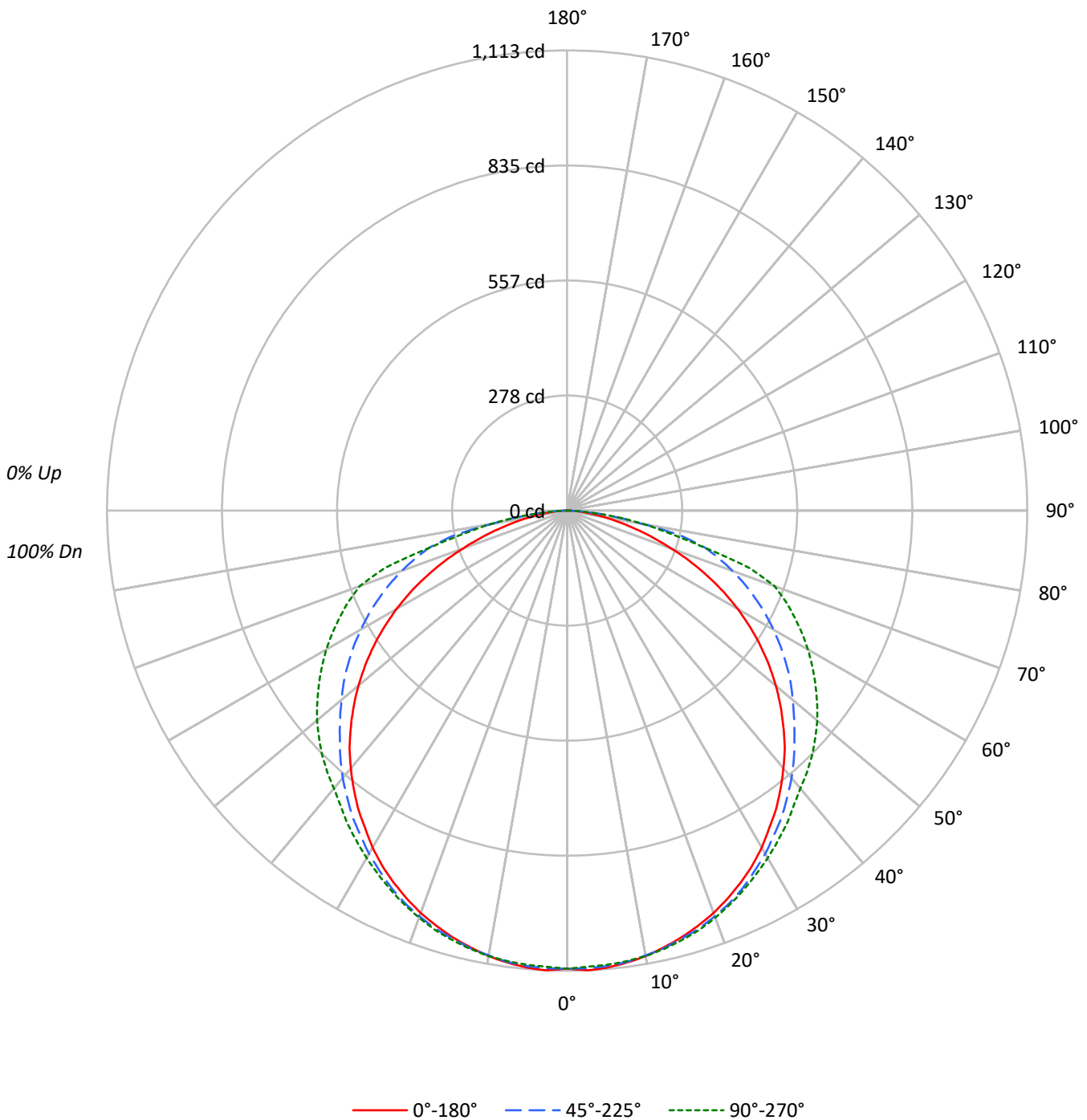
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1491	1491	1491
5°	1499	1494	1489
10°	1495	1493	1495
15°	1488	1493	1498
20°	1483	1495	1500
25°	1474	1494	1502
30°	1462	1489	1507
35°	1447	1486	1520
40°	1429	1484	1541
45°	1408	1480	1594
50°	1379	1491	1653
55°	1340	1517	1719
60°	1283	1551	1810
65°	1194	1599	1928
70°	1056	1672	2098
75°	885	1789	1762
80°	707	1413	1466
85°	557	956	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.0
10°-20°	302.4	8.7
20°-30°	461.9	13.2
30°-40°	564.8	16.2
40°-50°	604.5	17.3
50°-60°	579.8	16.6
60°-70°	489.6	14.0
70°-80°	312.9	9.0
80°-90°	74.0	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°	869.5	24.9
0°-40°	1434.2	41.0
0°-60°	2618.5	74.9
0°-90°	3495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1110	1103	1106	1104	1103	105
15°	1068	1065	1072	1075	1075	302
25°	993	991	1006	1010	1012	458
35°	881	888	905	917	926	551
45°	740	752	778	814	838	571
55°	571	590	647	705	733	510
65°	375	411	502	573	606	370
75°	170	243	344	351	339	183
85°	36	60	62	60	57	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1113.1	1106.2	1107.9	1107.9	1104.5
5°	1109.7	1102.8	1106.2	1104.5	1102.8
7.5°	1102.8	1097.6	1101.1	1101.1	1099.3
10°	1094.2	1089.0	1092.5	1094.2	1094.2
12.5°	1082.1	1078.7	1083.9	1083.9	1085.6
15°	1068.4	1064.9	1071.8	1075.3	1075.3
17.5°	1052.9	1051.2	1059.8	1061.5	1063.2
20°	1035.7	1034.0	1044.3	1044.3	1047.7
22.5°	1015.0	1013.3	1027.1	1027.1	1030.5
25°	992.7	991.0	1006.4	1009.9	1011.6
27.5°	968.6	966.9	982.4	987.5	991.0
30°	941.1	941.1	958.3	965.2	970.3
32.5°	910.1	915.3	930.7	941.1	947.9
35°	880.9	887.7	904.9	917.0	925.6
37.5°	848.2	855.0	874.0	889.5	899.8
40°	813.8	822.4	844.7	861.9	877.4
42.5°	779.3	787.9	812.0	837.8	858.5
45°	739.8	751.8	777.6	813.8	837.8
47.5°	700.2	712.2	744.9	789.7	813.8
50°	658.9	672.7	712.2	763.9	789.7
52.5°	615.9	631.4	681.3	736.3	762.1
55°	571.2	590.1	646.9	705.4	732.9
57.5°	524.7	545.4	612.5	674.4	703.6
60°	476.6	502.4	576.3	641.7	672.7
62.5°	426.7	457.6	540.2	607.3	640.0
65°	375.0	411.2	502.4	572.9	605.6
67.5°	321.7	369.9	464.5	538.5	571.2
70°	268.4	325.2	424.9	500.6	533.3
72.5°	218.5	283.9	385.4	455.9	462.8
75°	170.3	242.6	344.1	351.0	338.9
77.5°	127.3	201.3	283.9	252.9	251.2
80°	91.2	161.7	182.4	187.5	189.2
82.5°	60.2	122.1	118.7	122.1	120.4
85°	36.1	60.2	61.9	60.2	56.8
87.5°	17.2	22.4	17.2	15.5	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)