

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: P263269

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3589.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

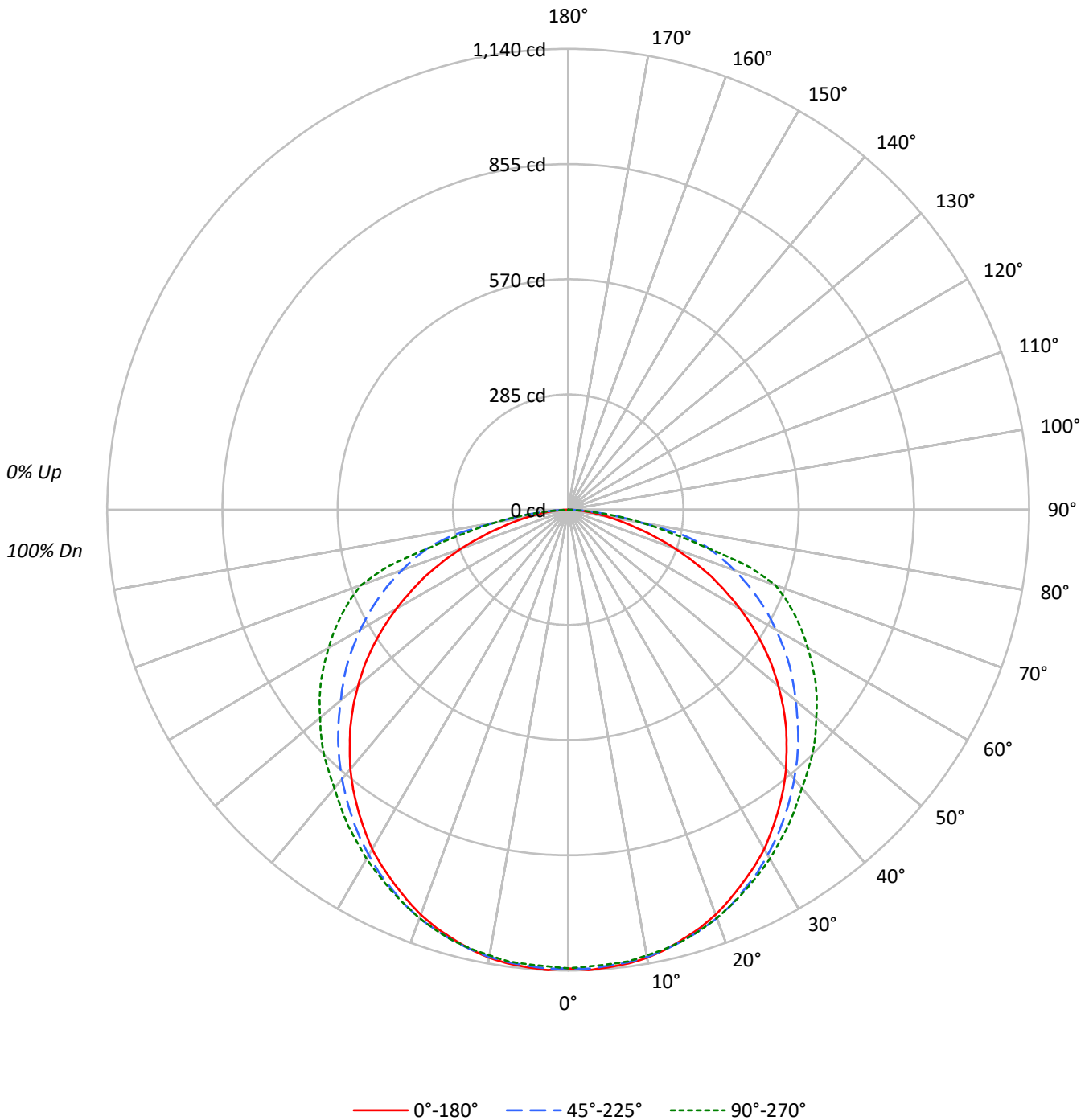
Input Watts (W): 40.269
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1527	1527	1527
5°	1535	1530	1525
10°	1537	1535	1530
15°	1531	1536	1536
20°	1526	1540	1540
25°	1514	1536	1541
30°	1506	1532	1550
35°	1489	1529	1562
40°	1472	1527	1579
45°	1450	1531	1626
50°	1420	1537	1676
55°	1383	1566	1753
60°	1322	1596	1841
65°	1239	1647	1971
70°	1109	1721	2144
75°	915	1841	1773
80°	747	1422	1437
85°	601	945	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.0
10°-20°	310.9	8.7
20°-30°	475.2	13.2
30°-40°	581.2	16.2
40°-50°	621.9	17.3
50°-60°	595.5	16.6
60°-70°	503.8	14.0
70°-80°	319.3	8.9
80°-90°	73.4	2.0
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°	893.9	24.9
0°-40°	1475.1	41.1
0°-60°	2692.5	75.0
0°-90°	3589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1136	1131	1133	1131	1129	108
15°	1099	1098	1103	1103	1103	311
25°	1020	1020	1034	1038	1038	470
35°	906	912	931	944	951	567
45°	762	775	805	838	855	587
55°	590	608	667	723	747	526
65°	389	426	517	588	619	384
75°	176	248	354	352	341	191
85°	39	59	61	56	58	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1140.1	1134.6	1136.4	1134.6	1130.8
5°	1136.4	1130.8	1132.7	1130.8	1129.0
7.5°	1132.7	1127.1	1129.0	1127.1	1127.1
10°	1125.3	1119.7	1123.4	1121.6	1119.7
12.5°	1114.2	1110.5	1114.2	1112.3	1112.3
15°	1099.3	1097.5	1103.0	1103.0	1103.0
17.5°	1084.5	1082.6	1090.1	1090.1	1090.1
20°	1066.0	1064.1	1075.2	1075.2	1075.2
22.5°	1043.7	1041.9	1056.7	1056.7	1056.7
25°	1019.6	1019.6	1034.4	1038.2	1038.2
27.5°	995.5	995.5	1012.2	1017.8	1017.8
30°	969.6	969.6	986.2	993.7	997.4
32.5°	938.0	941.8	960.3	969.6	973.3
35°	906.5	912.1	930.6	943.6	951.0
37.5°	873.2	878.7	901.0	915.8	925.1
40°	837.9	845.4	869.5	888.0	899.1
42.5°	799.0	810.1	837.9	862.0	876.9
45°	761.9	774.9	804.6	837.9	854.6
47.5°	721.1	736.0	769.3	812.0	828.7
50°	678.5	693.3	734.1	782.3	800.9
52.5°	635.9	652.6	700.8	752.7	774.9
55°	589.5	608.1	667.4	723.0	747.1
57.5°	541.3	563.6	630.3	689.6	715.6
60°	491.3	519.1	593.2	656.3	684.1
62.5°	439.4	472.7	556.2	622.9	652.6
65°	389.3	426.4	517.2	587.7	619.2
67.5°	335.5	381.9	478.3	554.3	584.0
70°	281.8	335.5	437.5	515.4	545.0
72.5°	228.0	292.9	396.7	467.2	467.2
75°	176.1	248.4	354.1	352.2	341.1
77.5°	133.5	207.6	291.1	248.4	250.3
80°	96.4	166.8	183.5	183.5	185.4
82.5°	64.9	127.9	118.6	116.8	120.5
85°	38.9	59.3	61.2	55.6	57.5
87.5°	18.5	20.4	16.7	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)