

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: P263406

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263406
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3329.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

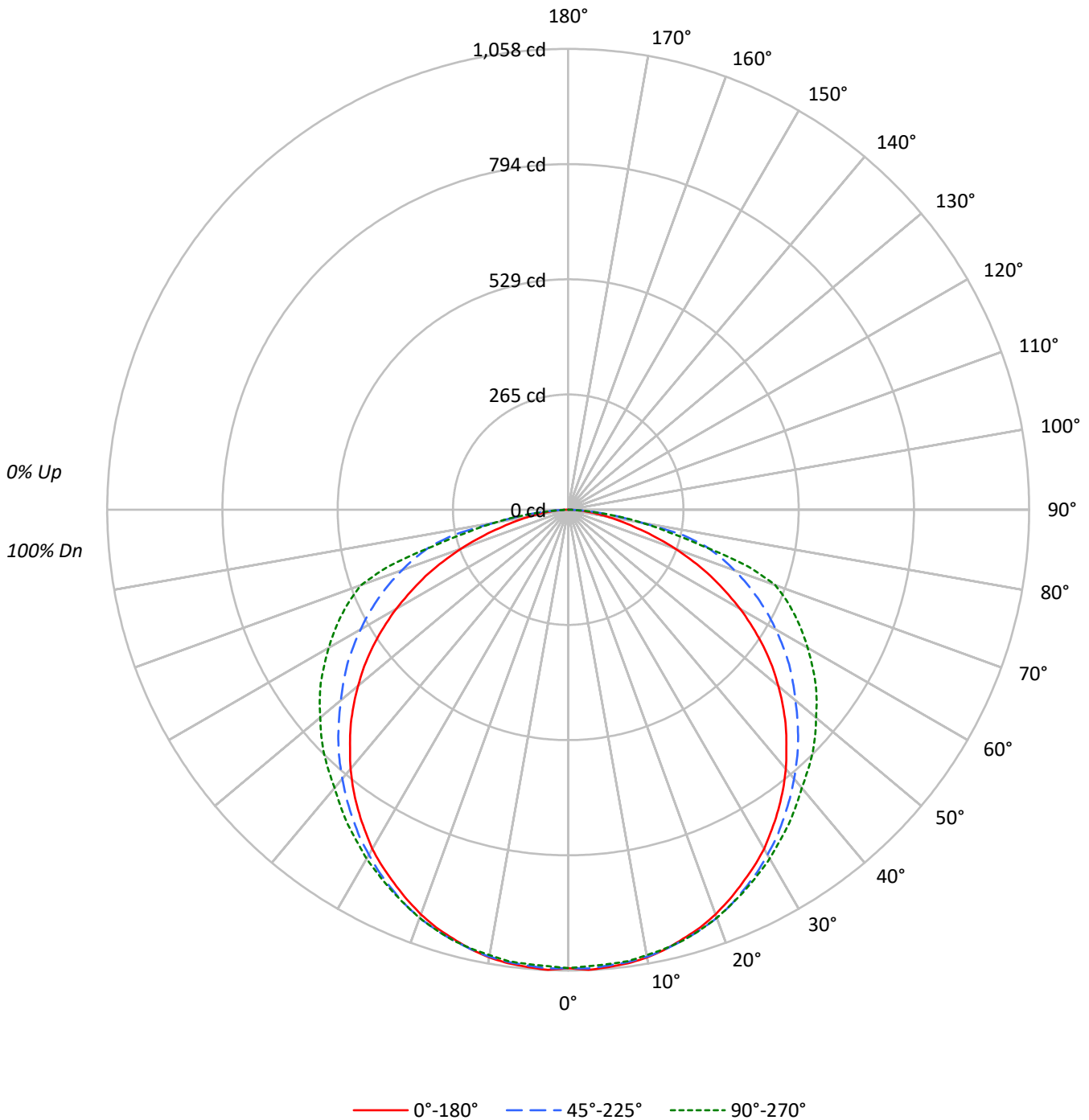
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1416	1416	1416
5°	1424	1419	1414
10°	1426	1424	1419
15°	1420	1425	1425
20°	1416	1428	1428
25°	1404	1424	1430
30°	1397	1421	1437
35°	1381	1418	1449
40°	1365	1417	1465
45°	1345	1420	1508
50°	1317	1425	1555
55°	1283	1452	1626
60°	1226	1481	1707
65°	1150	1528	1828
70°	1028	1596	1989
75°	849	1707	1645
80°	693	1319	1333
85°	557	875	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.0
10°-20°	288.4	8.7
20°-30°	440.8	13.2
30°-40°	539.1	16.2
40°-50°	576.8	17.3
50°-60°	552.4	16.6
60°-70°	467.3	14.0
70°-80°	296.2	8.9
80°-90°	68.1	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°	829.1	24.9
0°-40°	1368.2	41.1
0°-60°	2497.4	75.0
0°-90°	3329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1054	1049	1051	1049	1047	100
15°	1020	1018	1023	1023	1023	288
25°	946	946	960	963	963	436
35°	841	846	863	875	882	526
45°	707	719	746	777	793	544
55°	547	564	619	671	693	488
65°	361	396	480	545	574	356
75°	163	230	328	327	316	178
85°	36	55	57	52	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.4	1052.4	1052.4	1052.4	1052.4
2.5°	1057.5	1052.4	1054.1	1052.4	1048.9
5°	1054.1	1048.9	1050.6	1048.9	1047.2
7.5°	1050.6	1045.5	1047.2	1045.5	1045.5
10°	1043.8	1038.6	1042.0	1040.3	1038.6
12.5°	1033.4	1030.0	1033.4	1031.7	1031.7
15°	1019.7	1018.0	1023.1	1023.1	1023.1
17.5°	1005.9	1004.2	1011.1	1011.1	1011.1
20°	988.7	987.0	997.3	997.3	997.3
22.5°	968.1	966.4	980.1	980.1	980.1
25°	945.7	945.7	959.5	962.9	962.9
27.5°	923.4	923.4	938.9	944.0	944.0
30°	899.3	899.3	914.8	921.7	925.1
32.5°	870.1	873.5	890.7	899.3	902.8
35°	840.9	846.0	863.2	875.2	882.1
37.5°	809.9	815.1	835.7	849.5	858.1
40°	777.2	784.1	806.5	823.7	834.0
42.5°	741.1	751.4	777.2	799.6	813.3
45°	706.7	718.8	746.3	777.2	792.7
47.5°	668.9	682.7	713.6	753.2	768.6
50°	629.4	643.1	680.9	725.6	742.8
52.5°	589.8	605.3	650.0	698.1	718.8
55°	546.8	564.0	619.0	670.6	693.0
57.5°	502.1	522.7	584.6	639.7	663.7
60°	455.7	481.5	550.3	608.7	634.5
62.5°	407.5	438.5	515.9	577.8	605.3
65°	361.1	395.5	479.8	545.1	574.3
67.5°	311.2	354.2	443.6	514.1	541.7
70°	261.4	311.2	405.8	478.0	505.5
72.5°	211.5	271.7	368.0	433.3	433.3
75°	163.4	230.4	328.4	326.7	316.4
77.5°	123.8	192.6	270.0	230.4	232.1
80°	89.4	154.8	170.2	170.2	172.0
82.5°	60.2	118.6	110.1	108.3	111.8
85°	36.1	55.0	56.7	51.6	53.3
87.5°	17.2	18.9	15.5	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)