

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: P263444

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263444
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-LD5-75-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4684.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

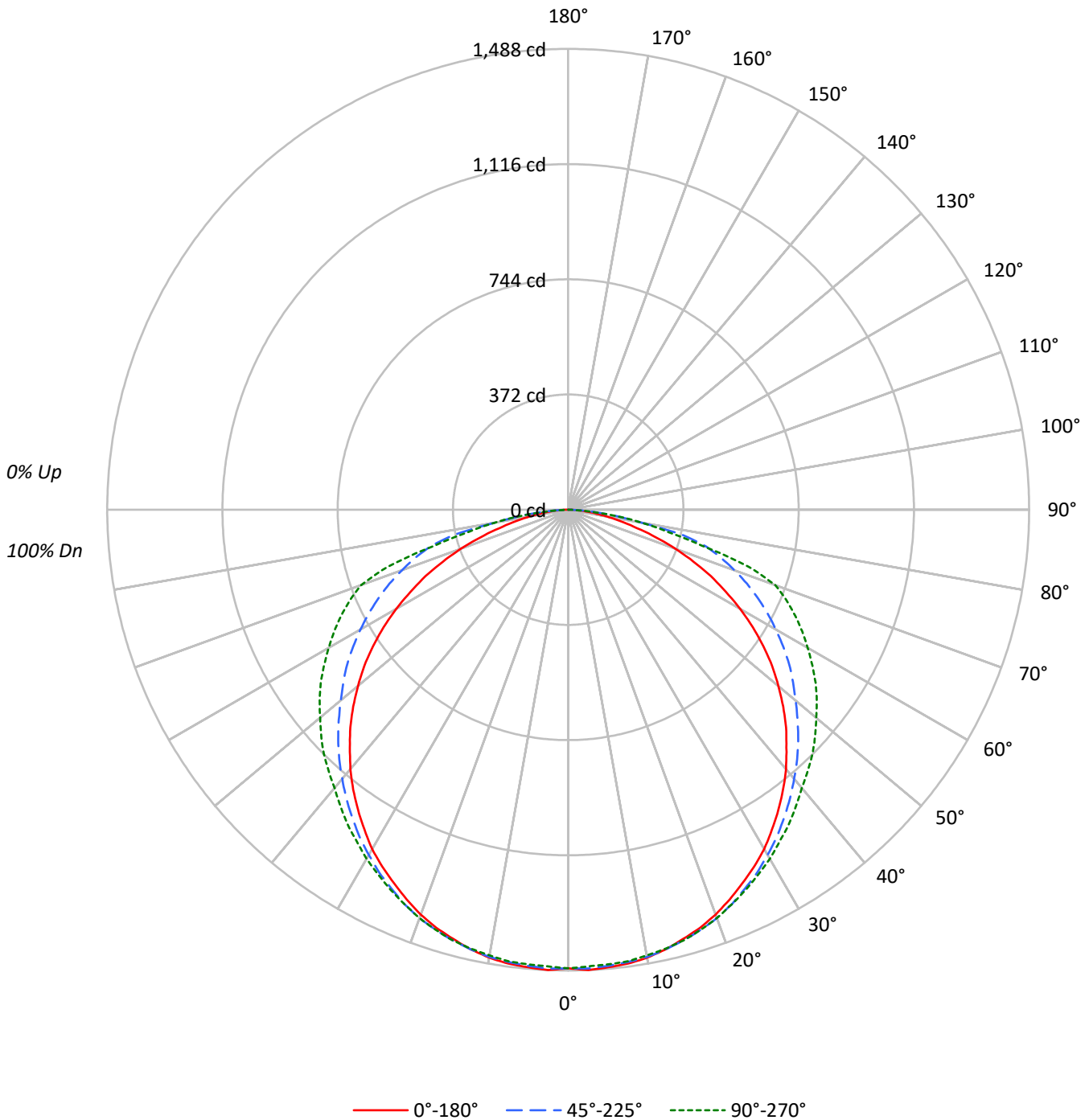
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1992	1992	1992
5°	2003	1997	1990
10°	2006	2003	1996
15°	1998	2005	2005
20°	1992	2009	2009
25°	1976	2004	2011
30°	1966	2000	2022
35°	1943	1995	2039
40°	1921	1993	2061
45°	1892	1998	2122
50°	1854	2006	2188
55°	1805	2043	2287
60°	1725	2083	2403
65°	1618	2149	2573
70°	1447	2246	2798
75°	1195	2402	2314
80°	975	1856	1874
85°	784	1232	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	3.0
10°-20°	405.8	8.7
20°-30°	620.2	13.2
30°-40°	758.5	16.2
40°-50°	811.6	17.3
50°-60°	777.2	16.6
60°-70°	657.4	14.0
70°-80°	416.7	8.9
80°-90°	95.9	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°	1166.6	24.9
0°-40°	1925.2	41.1
0°-60°	3514.0	75.0
0°-90°	4684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1483	1476	1478	1476	1473	141
15°	1435	1432	1440	1440	1440	405
25°	1331	1331	1350	1355	1355	614
35°	1183	1190	1215	1232	1241	740
45°	994	1011	1050	1094	1115	766
55°	769	794	871	944	975	686
65°	508	556	675	767	808	501
75°	230	324	462	460	445	250
85°	51	77	80	73	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1480.7	1480.7	1480.7	1480.7	1480.7
2.5°	1488.0	1480.7	1483.1	1480.7	1475.9
5°	1483.1	1475.9	1478.3	1475.9	1473.4
7.5°	1478.3	1471.0	1473.4	1471.0	1471.0
10°	1468.6	1461.3	1466.2	1463.8	1461.3
12.5°	1454.1	1449.2	1454.1	1451.7	1451.7
15°	1434.7	1432.3	1439.6	1439.6	1439.6
17.5°	1415.4	1413.0	1422.6	1422.6	1422.6
20°	1391.2	1388.8	1403.3	1403.3	1403.3
22.5°	1362.1	1359.7	1379.1	1379.1	1379.1
25°	1330.7	1330.7	1350.1	1354.9	1354.9
27.5°	1299.2	1299.2	1321.0	1328.3	1328.3
30°	1265.4	1265.4	1287.1	1296.8	1301.7
32.5°	1224.2	1229.1	1253.3	1265.4	1270.2
35°	1183.1	1190.4	1214.6	1231.5	1241.2
37.5°	1139.6	1146.8	1175.9	1195.2	1207.3
40°	1093.6	1103.3	1134.7	1158.9	1173.4
42.5°	1042.8	1057.3	1093.6	1125.0	1144.4
45°	994.4	1011.3	1050.0	1093.6	1115.4
47.5°	941.2	960.5	1004.1	1059.7	1081.5
50°	885.5	904.9	958.1	1021.0	1045.2
52.5°	829.9	851.6	914.6	982.3	1011.3
55°	769.4	793.6	871.0	943.6	975.0
57.5°	706.5	735.5	822.6	900.0	933.9
60°	641.2	677.4	774.2	856.5	892.8
62.5°	573.4	617.0	725.8	812.9	851.6
65°	508.1	556.5	675.0	767.0	808.1
67.5°	437.9	498.4	624.2	723.4	762.1
70°	367.8	437.9	571.0	672.6	711.3
72.5°	297.6	382.3	517.8	609.7	609.7
75°	229.8	324.2	462.1	459.7	445.2
77.5°	174.2	271.0	379.9	324.2	326.6
80°	125.8	217.8	239.5	239.5	241.9
82.5°	84.7	166.9	154.8	152.4	157.3
85°	50.8	77.4	79.8	72.6	75.0
87.5°	24.2	26.6	21.8	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)