

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: P263438

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263438
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3910.0 lumens
Efficiency: N/A
Efficacy: 67.1 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

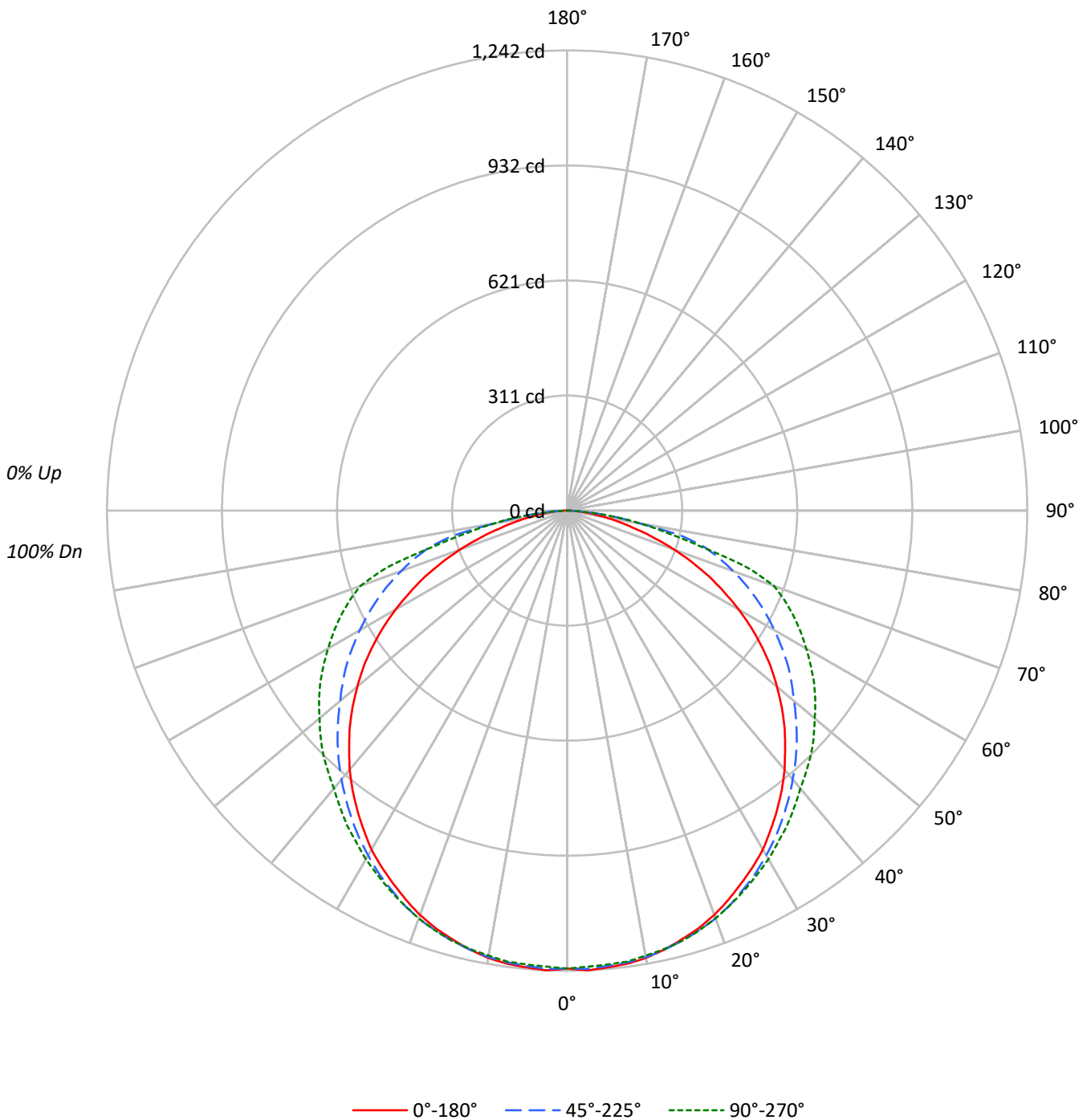
Input Watts (W): 58.311
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1663	1663	1663
5°	1672	1667	1661
10°	1675	1672	1667
15°	1668	1674	1674
20°	1663	1677	1677
25°	1649	1673	1679
30°	1641	1669	1688
35°	1622	1665	1702
40°	1603	1664	1720
45°	1580	1668	1772
50°	1547	1674	1826
55°	1506	1706	1909
60°	1440	1739	2005
65°	1350	1794	2148
70°	1208	1875	2336
75°	998	2006	1932
80°	814	1549	1565
85°	655	1028	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.0
10°-20°	338.7	8.7
20°-30°	517.7	13.2
30°-40°	633.2	16.2
40°-50°	677.5	17.3
50°-60°	648.8	16.6
60°-70°	548.8	14.0
70°-80°	347.9	8.9
80°-90°	80.0	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°	973.8	24.9
0°-40°	1607.0	41.1
0°-60°	2933.3	75.0
0°-90°	3910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1238	1232	1234	1232	1230	118
15°	1198	1196	1202	1202	1202	338
25°	1111	1111	1127	1131	1131	513
35°	988	994	1014	1028	1036	618
45°	830	844	876	913	931	639
55°	642	662	727	788	814	573
65°	424	464	564	640	675	418
75°	192	271	386	384	372	209
85°	42	65	67	61	63	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.0	1236.0	1236.0	1236.0	1236.0
2.5°	1242.1	1236.0	1238.0	1236.0	1232.0
5°	1238.0	1232.0	1234.0	1232.0	1230.0
7.5°	1234.0	1227.9	1230.0	1227.9	1227.9
10°	1225.9	1219.9	1223.9	1221.9	1219.9
12.5°	1213.8	1209.8	1213.8	1211.8	1211.8
15°	1197.7	1195.6	1201.7	1201.7	1201.7
17.5°	1181.5	1179.5	1187.6	1187.6	1187.6
20°	1161.3	1159.3	1171.4	1171.4	1171.4
22.5°	1137.1	1135.0	1151.2	1151.2	1151.2
25°	1110.8	1110.8	1127.0	1131.0	1131.0
27.5°	1084.6	1084.6	1102.7	1108.8	1108.8
30°	1056.3	1056.3	1074.5	1082.5	1086.6
32.5°	1021.9	1026.0	1046.2	1056.3	1060.3
35°	987.6	993.7	1013.9	1028.0	1036.1
37.5°	951.3	957.3	981.5	997.7	1007.8
40°	912.9	921.0	947.2	967.4	979.5
42.5°	870.5	882.6	912.9	939.1	955.3
45°	830.1	844.2	876.5	912.9	931.1
47.5°	785.6	801.8	838.2	884.6	902.8
50°	739.2	755.3	799.8	852.3	872.5
52.5°	692.7	710.9	763.4	820.0	844.2
55°	642.2	662.4	727.1	787.7	813.9
57.5°	589.7	614.0	686.7	751.3	779.6
60°	535.2	565.5	646.3	715.0	745.2
62.5°	478.7	515.0	605.9	678.6	710.9
65°	424.1	464.5	563.5	640.2	674.6
67.5°	365.6	416.0	521.1	603.9	636.2
70°	307.0	365.6	476.6	561.5	593.8
72.5°	248.4	319.1	432.2	509.0	509.0
75°	191.9	270.6	385.8	383.7	371.6
77.5°	145.4	226.2	317.1	270.6	272.7
80°	105.0	181.8	199.9	199.9	202.0
82.5°	70.7	139.4	129.3	127.2	131.3
85°	42.4	64.6	66.6	60.6	62.6
87.5°	20.2	22.2	18.2	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)