

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: P263274

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263274
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

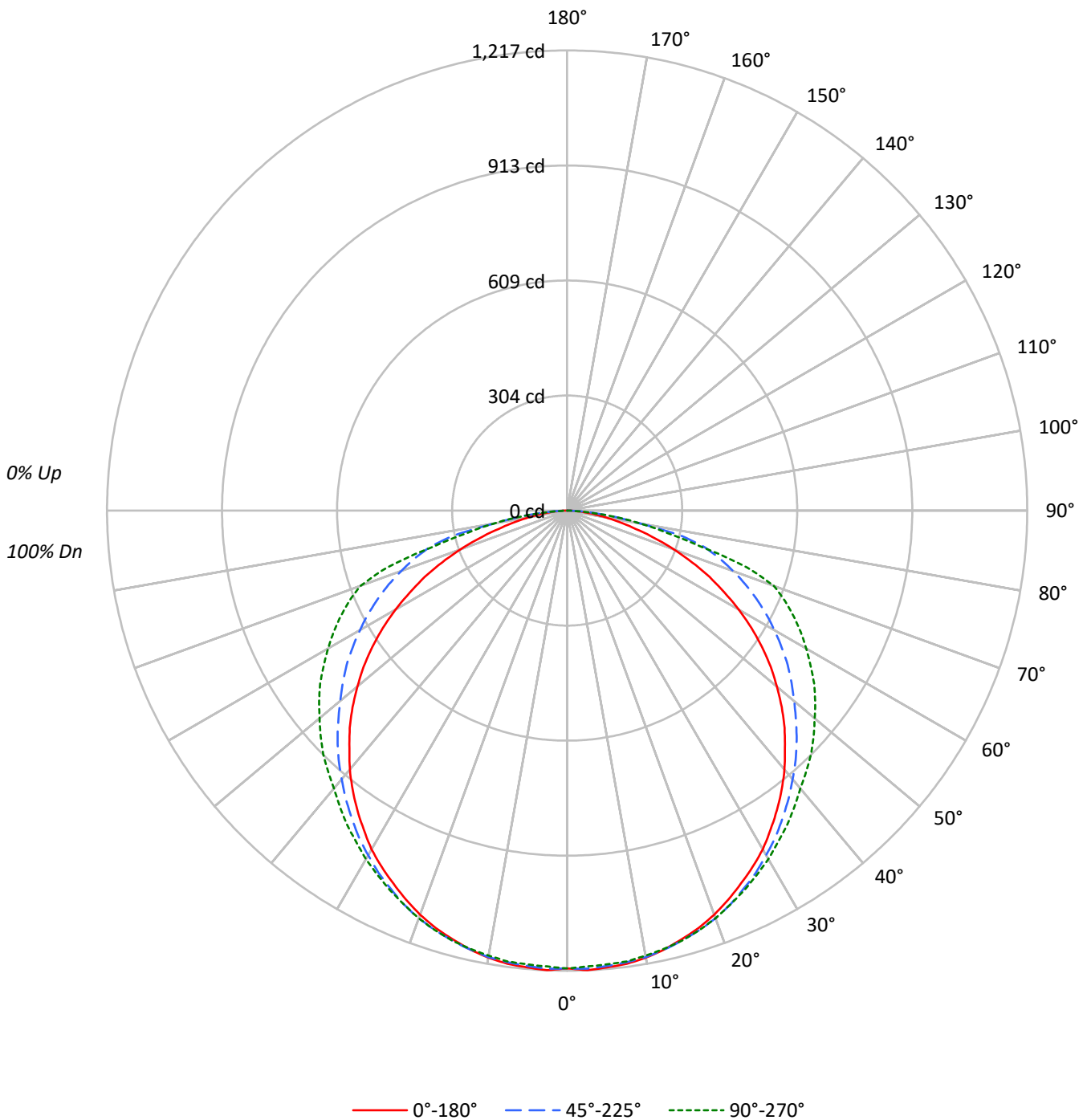
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1629	1629	1629
5°	1638	1633	1627
10°	1641	1638	1633
15°	1634	1640	1640
20°	1629	1643	1643
25°	1615	1639	1645
30°	1608	1635	1654
35°	1589	1631	1667
40°	1571	1630	1685
45°	1547	1634	1735
50°	1516	1640	1789
55°	1476	1671	1870
60°	1411	1704	1964
65°	1323	1757	2104
70°	1183	1837	2288
75°	977	1965	1892
80°	797	1518	1533
85°	641	1008	946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.0
10°-20°	331.8	8.7
20°-30°	507.1	13.2
30°-40°	620.2	16.2
40°-50°	663.6	17.3
50°-60°	635.5	16.6
60°-70°	537.6	14.0
70°-80°	340.8	8.9
80°-90°	78.4	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°	953.9	24.9
0°-40°	1574.1	41.1
0°-60°	2873.3	75.0
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1213	1207	1209	1207	1205	115
15°	1173	1171	1177	1177	1177	331
25°	1088	1088	1104	1108	1108	502
35°	967	973	993	1007	1015	605
45°	813	827	859	894	912	626
55°	629	649	712	772	797	561
65°	415	455	552	627	661	409
75°	188	265	378	376	364	204
85°	42	63	65	59	61	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.7	1210.7	1210.7	1210.7	1210.7
2.5°	1216.7	1210.7	1212.7	1210.7	1206.8
5°	1212.7	1206.8	1208.8	1206.8	1204.8
7.5°	1208.8	1202.8	1204.8	1202.8	1202.8
10°	1200.8	1194.9	1198.9	1196.9	1194.9
12.5°	1189.0	1185.0	1189.0	1187.0	1187.0
15°	1173.1	1171.2	1177.1	1177.1	1177.1
17.5°	1157.3	1155.3	1163.3	1163.3	1163.3
20°	1137.5	1135.6	1147.4	1147.4	1147.4
22.5°	1113.8	1111.8	1127.6	1127.6	1127.6
25°	1088.1	1088.1	1103.9	1107.9	1107.9
27.5°	1062.4	1062.4	1080.2	1086.1	1086.1
30°	1034.7	1034.7	1052.5	1060.4	1064.3
32.5°	1001.0	1005.0	1024.8	1034.7	1038.6
35°	967.4	973.3	993.1	1007.0	1014.9
37.5°	931.8	937.7	961.5	977.3	987.2
40°	894.2	902.1	927.8	947.6	959.5
42.5°	852.7	864.5	894.2	919.9	935.7
45°	813.1	826.9	858.6	894.2	912.0
47.5°	769.6	785.4	821.0	866.5	884.3
50°	724.1	739.9	783.4	834.9	854.6
52.5°	678.6	696.4	747.8	803.2	826.9
55°	629.1	648.9	712.2	771.5	797.3
57.5°	577.7	601.4	672.6	735.9	763.6
60°	524.3	553.9	633.1	700.3	730.0
62.5°	468.9	504.5	593.5	664.7	696.4
65°	415.4	455.0	552.0	627.1	660.8
67.5°	358.1	407.5	510.4	591.5	623.2
70°	300.7	358.1	466.9	550.0	581.6
72.5°	243.3	312.6	423.4	498.5	498.5
75°	187.9	265.1	377.9	375.9	364.0
77.5°	142.4	221.6	310.6	265.1	267.1
80°	102.9	178.0	195.9	195.9	197.8
82.5°	69.2	136.5	126.6	124.6	128.6
85°	41.5	63.3	65.3	59.3	61.3
87.5°	19.8	21.8	17.8	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)