

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: P263275

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263275
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 91.8 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

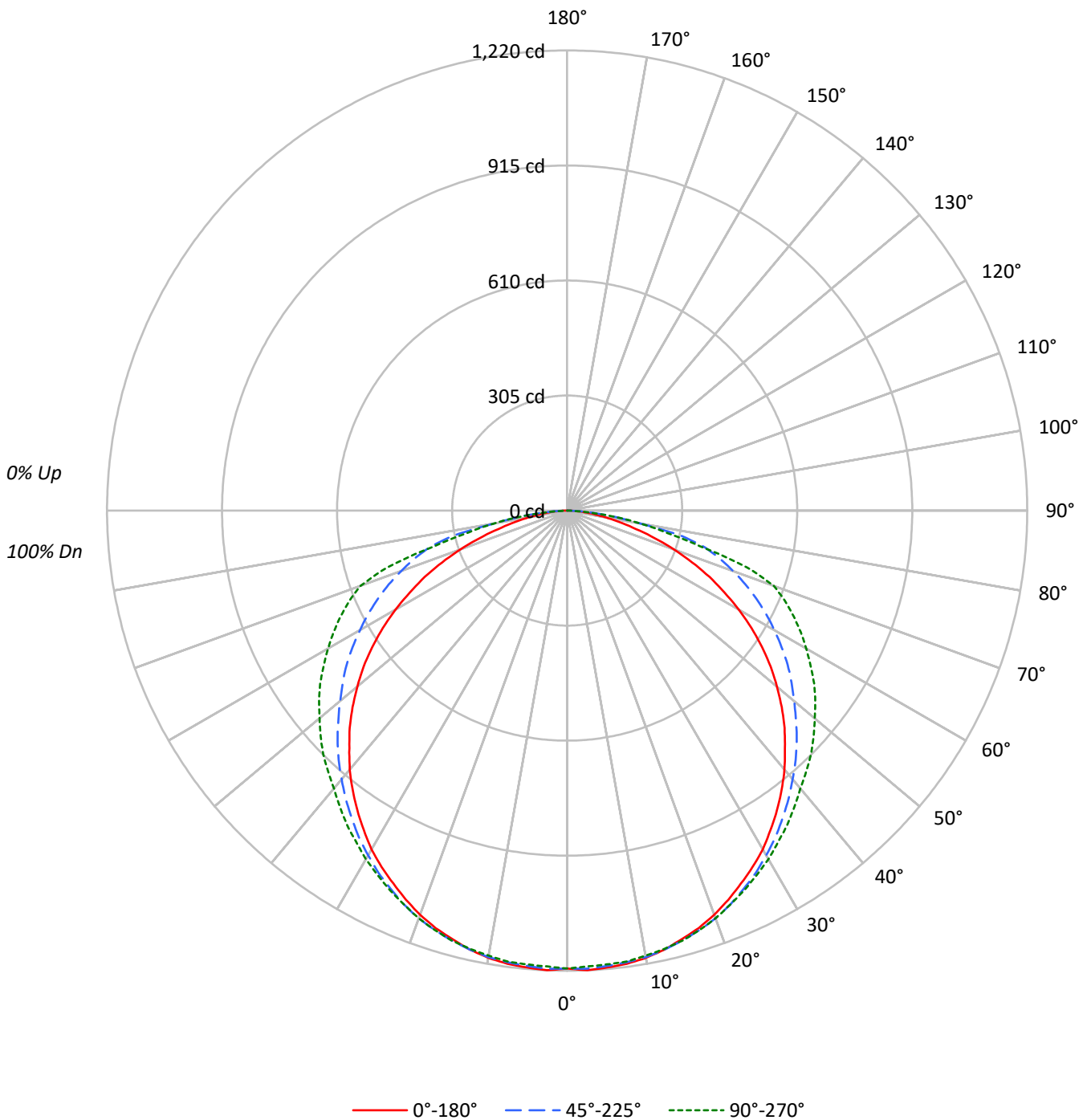
Input Watts (W): 41.85
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1633	1633	1633
5°	1642	1637	1631
10°	1645	1642	1637
15°	1638	1644	1644
20°	1633	1647	1647
25°	1620	1643	1649
30°	1612	1639	1658
35°	1593	1635	1671
40°	1575	1634	1690
45°	1551	1638	1740
50°	1520	1644	1794
55°	1479	1675	1875
60°	1414	1708	1970
65°	1326	1762	2109
70°	1186	1841	2294
75°	979	1969	1897
80°	799	1522	1537
85°	644	1011	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	3.0
10°-20°	332.7	8.7
20°-30°	508.4	13.2
30°-40°	621.8	16.2
40°-50°	665.4	17.3
50°-60°	637.2	16.6
60°-70°	539.0	14.0
70°-80°	341.7	8.9
80°-90°	78.6	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°	956.4	24.9
0°-40°	1578.3	41.1
0°-60°	2880.8	75.0
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1216	1210	1212	1210	1208	116
15°	1176	1174	1180	1180	1180	332
25°	1091	1091	1107	1111	1111	503
35°	970	976	996	1010	1018	607
45°	815	829	861	896	914	628
55°	631	651	714	774	799	563
65°	416	456	553	629	662	410
75°	188	266	379	377	365	205
85°	42	64	66	60	62	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.9	1213.9	1213.9	1213.9	1213.9
2.5°	1219.8	1213.9	1215.9	1213.9	1209.9
5°	1215.9	1209.9	1211.9	1209.9	1207.9
7.5°	1211.9	1206.0	1207.9	1206.0	1206.0
10°	1204.0	1198.0	1202.0	1200.0	1198.0
12.5°	1192.1	1188.1	1192.1	1190.1	1190.1
15°	1176.2	1174.2	1180.2	1180.2	1180.2
17.5°	1160.3	1158.4	1166.3	1166.3	1166.3
20°	1140.5	1138.5	1150.4	1150.4	1150.4
22.5°	1116.7	1114.7	1130.6	1130.6	1130.6
25°	1090.9	1090.9	1106.8	1110.8	1110.8
27.5°	1065.1	1065.1	1083.0	1088.9	1088.9
30°	1037.4	1037.4	1055.2	1063.2	1067.1
32.5°	1003.6	1007.6	1027.4	1037.4	1041.3
35°	969.9	975.9	995.7	1009.6	1017.5
37.5°	934.2	940.2	964.0	979.8	989.8
40°	896.5	904.5	930.3	950.1	962.0
42.5°	854.9	866.8	896.5	922.3	938.2
45°	815.2	829.1	860.8	896.5	914.4
47.5°	771.6	787.4	823.1	868.8	886.6
50°	726.0	741.8	785.5	837.0	856.9
52.5°	680.3	698.2	749.8	805.3	829.1
55°	630.7	650.6	714.1	773.6	799.3
57.5°	579.2	603.0	674.4	737.9	765.6
60°	525.6	555.4	634.7	702.2	731.9
62.5°	470.1	505.8	595.0	666.5	698.2
65°	416.5	456.2	553.4	628.8	662.5
67.5°	359.0	408.6	511.7	593.1	624.8
70°	301.5	359.0	468.1	551.4	583.1
72.5°	244.0	313.4	424.5	499.8	499.8
75°	188.4	265.8	378.8	376.9	365.0
77.5°	142.8	222.2	311.4	265.8	267.8
80°	103.1	178.5	196.4	196.4	198.3
82.5°	69.4	136.9	126.9	125.0	128.9
85°	41.7	63.5	65.5	59.5	61.5
87.5°	19.8	21.8	17.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)