

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: P263309

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263309
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-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5189.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

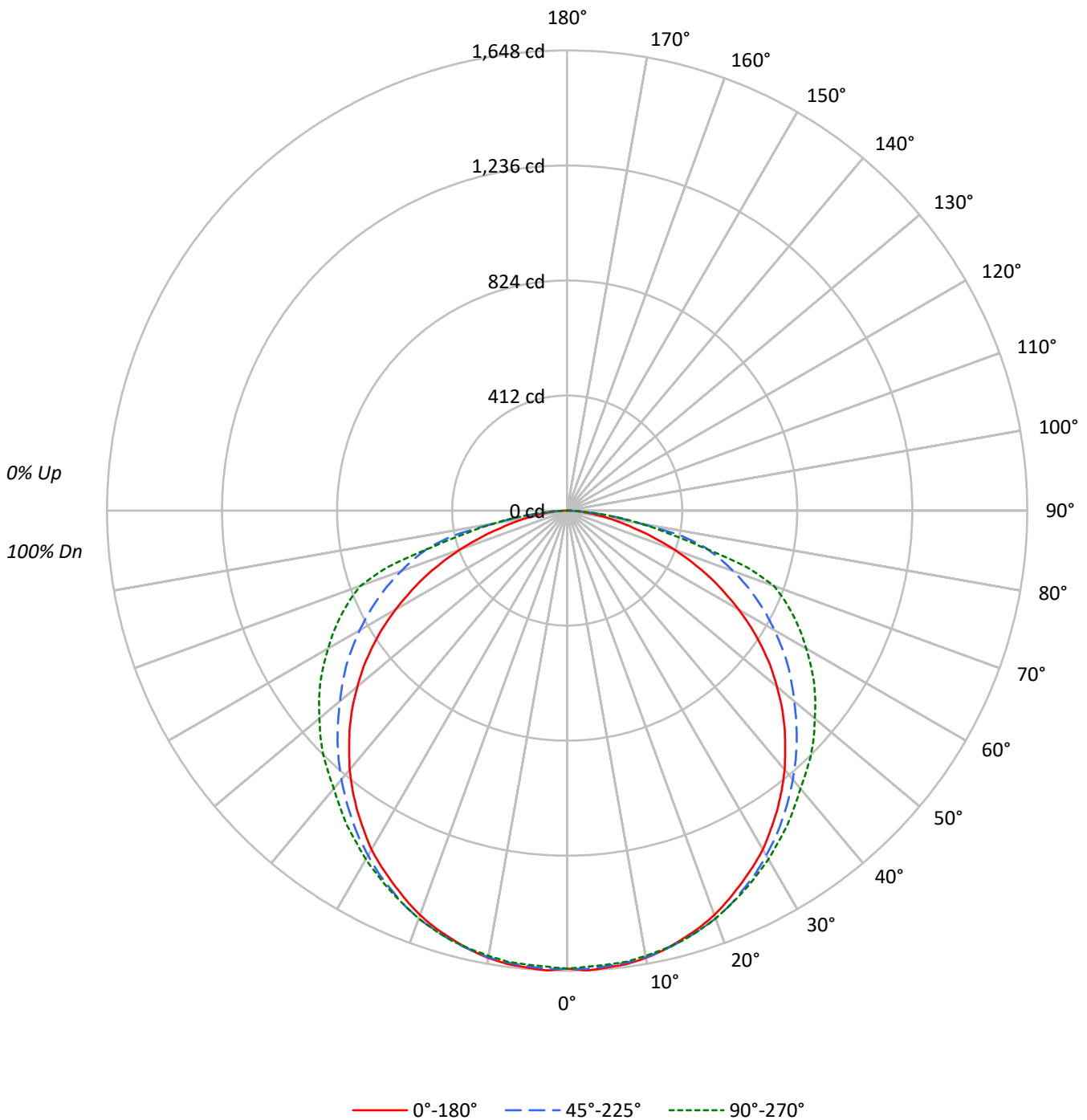
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2207	2207	2207
5°	2219	2212	2205
10°	2223	2219	2212
15°	2214	2221	2221
20°	2207	2226	2226
25°	2189	2220	2228
30°	2178	2215	2240
35°	2153	2210	2258
40°	2128	2208	2283
45°	2096	2213	2351
50°	2053	2222	2424
55°	1999	2263	2534
60°	1911	2308	2661
65°	1792	2381	2850
70°	1603	2488	3100
75°	1324	2661	2564
80°	1080	2056	2077
85°	869	1365	1283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.0
10°-20°	449.5	8.7
20°-30°	687.1	13.2
30°-40°	840.3	16.2
40°-50°	899.1	17.3
50°-60°	861.0	16.6
60°-70°	728.3	14.0
70°-80°	461.7	8.9
80°-90°	106.2	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°	1292.4	24.9
0°-40°	2132.7	41.1
0°-60°	3892.8	75.0
0°-90°	5189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1643	1635	1638	1635	1632	156
15°	1589	1587	1595	1595	1595	449
25°	1474	1474	1496	1501	1501	680
35°	1311	1319	1346	1364	1375	820
45°	1102	1120	1163	1212	1236	849
55°	852	879	965	1045	1080	760
65°	563	616	748	850	895	554
75°	255	359	512	509	493	277
85°	56	86	88	80	83	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1648.4	1640.3	1643.0	1640.3	1635.0
5°	1643.0	1635.0	1637.7	1635.0	1632.3
7.5°	1637.7	1629.6	1632.3	1629.6	1629.6
10°	1626.9	1618.9	1624.3	1621.6	1618.9
12.5°	1610.9	1605.5	1610.9	1608.2	1608.2
15°	1589.4	1586.7	1594.8	1594.8	1594.8
17.5°	1568.0	1565.3	1576.0	1576.0	1576.0
20°	1541.2	1538.5	1554.6	1554.6	1554.6
22.5°	1509.0	1506.3	1527.8	1527.8	1527.8
25°	1474.2	1474.2	1495.6	1501.0	1501.0
27.5°	1439.3	1439.3	1463.4	1471.5	1471.5
30°	1401.8	1401.8	1425.9	1436.6	1442.0
32.5°	1356.2	1361.6	1388.4	1401.8	1407.2
35°	1310.7	1318.7	1345.5	1364.3	1375.0
37.5°	1262.4	1270.5	1302.6	1324.1	1337.5
40°	1211.5	1222.2	1257.1	1283.9	1299.9
42.5°	1155.2	1171.3	1211.5	1246.3	1267.8
45°	1101.6	1120.4	1163.2	1211.5	1235.6
47.5°	1042.6	1064.1	1112.3	1174.0	1198.1
50°	981.0	1002.4	1061.4	1131.1	1157.9
52.5°	919.3	943.5	1013.2	1088.2	1120.4
55°	852.3	879.1	964.9	1045.3	1080.2
57.5°	782.6	814.8	911.3	997.1	1034.6
60°	710.3	750.5	857.7	948.8	989.0
62.5°	635.2	683.5	804.1	900.6	943.5
65°	562.9	616.5	747.8	849.7	895.2
67.5°	485.1	552.1	691.5	801.4	844.3
70°	407.4	485.1	632.5	745.1	788.0
72.5°	329.7	423.5	573.6	675.4	675.4
75°	254.6	359.2	511.9	509.3	493.2
77.5°	193.0	300.2	420.8	359.2	361.8
80°	139.4	241.2	265.3	265.3	268.0
82.5°	93.8	184.9	171.5	168.9	174.2
85°	56.3	85.8	88.4	80.4	83.1
87.5°	26.8	29.5	24.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)