

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: P263432

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263432
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-LD5-70-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 75.9 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

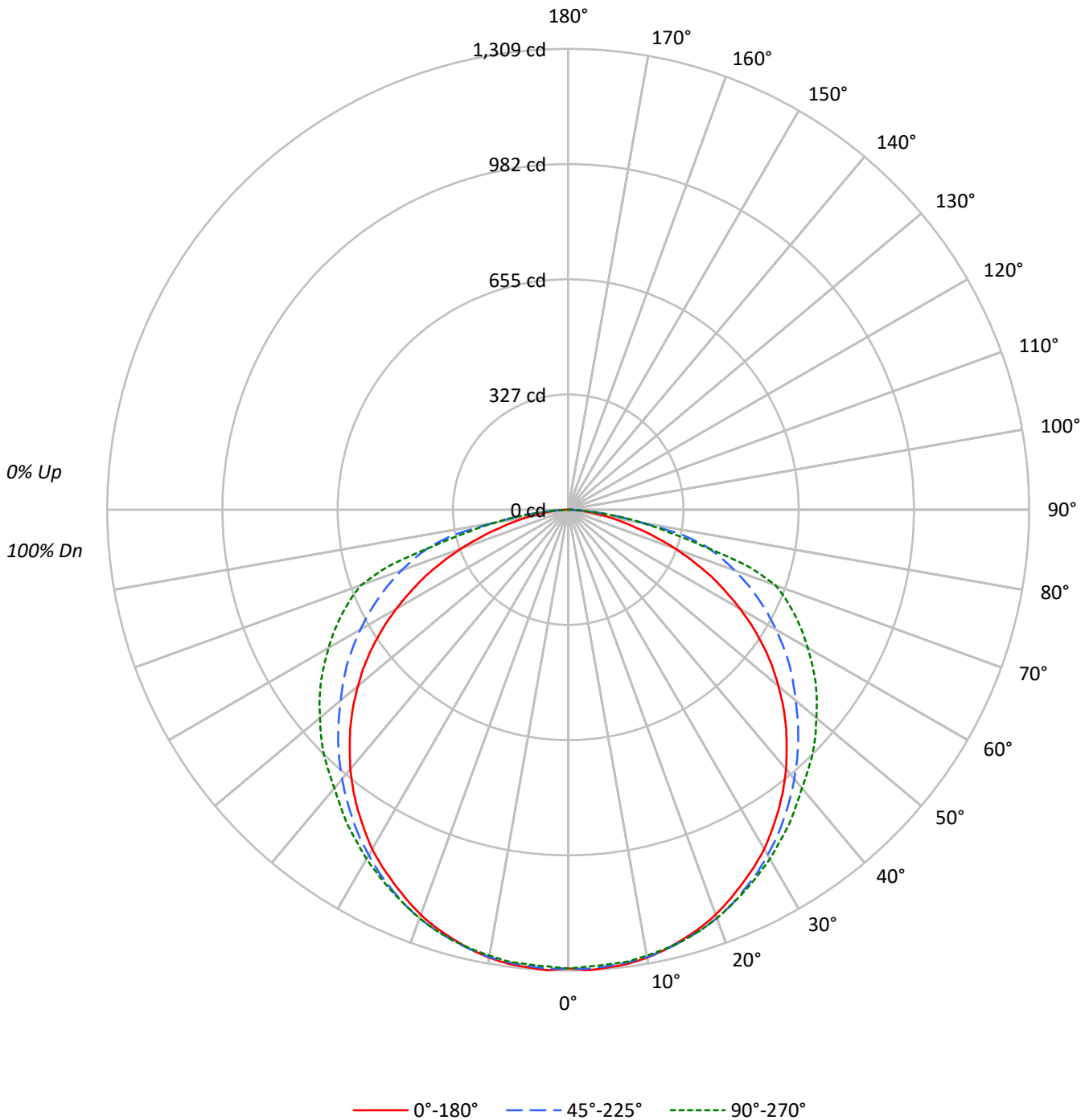
Input Watts (W): 54.312
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1753	1753	1753
5°	1763	1757	1751
10°	1766	1763	1757
15°	1759	1765	1765
20°	1753	1768	1768
25°	1738	1764	1770
30°	1730	1760	1780
35°	1710	1756	1794
40°	1690	1754	1814
45°	1665	1758	1868
50°	1631	1765	1925
55°	1588	1798	2013
60°	1518	1833	2114
65°	1423	1891	2264
70°	1273	1977	2463
75°	1052	2114	2037
80°	858	1633	1650
85°	690	1085	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.0
10°-20°	357.1	8.7
20°-30°	545.8	13.2
30°-40°	667.5	16.2
40°-50°	714.2	17.3
50°-60°	683.9	16.6
60°-70°	578.5	14.0
70°-80°	366.7	8.9
80°-90°	84.4	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°	1026.6	24.9
0°-40°	1694.1	41.1
0°-60°	3092.3	75.0
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1305	1299	1301	1299	1297	124
15°	1263	1260	1267	1267	1267	357
25°	1171	1171	1188	1192	1192	540
35°	1041	1048	1069	1084	1092	651
45°	875	890	924	962	982	674
55°	677	698	766	830	858	604
65°	447	490	594	675	711	440
75°	202	285	407	404	392	220
85°	45	68	70	64	66	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.0	1303.0	1303.0	1303.0	1303.0
2.5°	1309.4	1303.0	1305.2	1303.0	1298.8
5°	1305.2	1298.8	1300.9	1298.8	1296.7
7.5°	1300.9	1294.5	1296.7	1294.5	1294.5
10°	1292.4	1286.0	1290.3	1288.1	1286.0
12.5°	1279.6	1275.4	1279.6	1277.5	1277.5
15°	1262.6	1260.5	1266.8	1266.8	1266.8
17.5°	1245.6	1243.4	1251.9	1251.9	1251.9
20°	1224.3	1222.1	1234.9	1234.9	1234.9
22.5°	1198.7	1196.6	1213.6	1213.6	1213.6
25°	1171.0	1171.0	1188.1	1192.3	1192.3
27.5°	1143.4	1143.4	1162.5	1168.9	1168.9
30°	1113.5	1113.5	1132.7	1141.2	1145.5
32.5°	1077.4	1081.6	1102.9	1113.5	1117.8
35°	1041.2	1047.5	1068.8	1083.7	1092.3
37.5°	1002.8	1009.2	1034.8	1051.8	1062.4
40°	962.4	970.9	998.6	1019.9	1032.6
42.5°	917.7	930.4	962.4	990.1	1007.1
45°	875.1	890.0	924.1	962.4	981.5
47.5°	828.2	845.3	883.6	932.6	951.7
50°	779.3	796.3	843.1	898.5	919.8
52.5°	730.3	749.5	804.8	864.4	890.0
55°	677.1	698.4	766.5	830.4	858.0
57.5°	621.7	647.3	723.9	792.0	821.9
60°	564.2	596.2	681.3	753.7	785.7
62.5°	504.6	542.9	638.7	715.4	749.5
65°	447.1	489.7	594.0	674.9	711.1
67.5°	385.4	438.6	549.3	636.6	670.7
70°	323.6	385.4	502.5	591.9	626.0
72.5°	261.9	336.4	455.6	536.5	536.5
75°	202.3	285.3	406.7	404.5	391.8
77.5°	153.3	238.5	334.3	285.3	287.4
80°	110.7	191.6	210.8	210.8	212.9
82.5°	74.5	146.9	136.3	134.1	138.4
85°	44.7	68.1	70.3	63.9	66.0
87.5°	21.3	23.4	19.2	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)