

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: P263440

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263440
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4269.0 lumens
Efficiency: N/A
Efficacy: 73.0 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

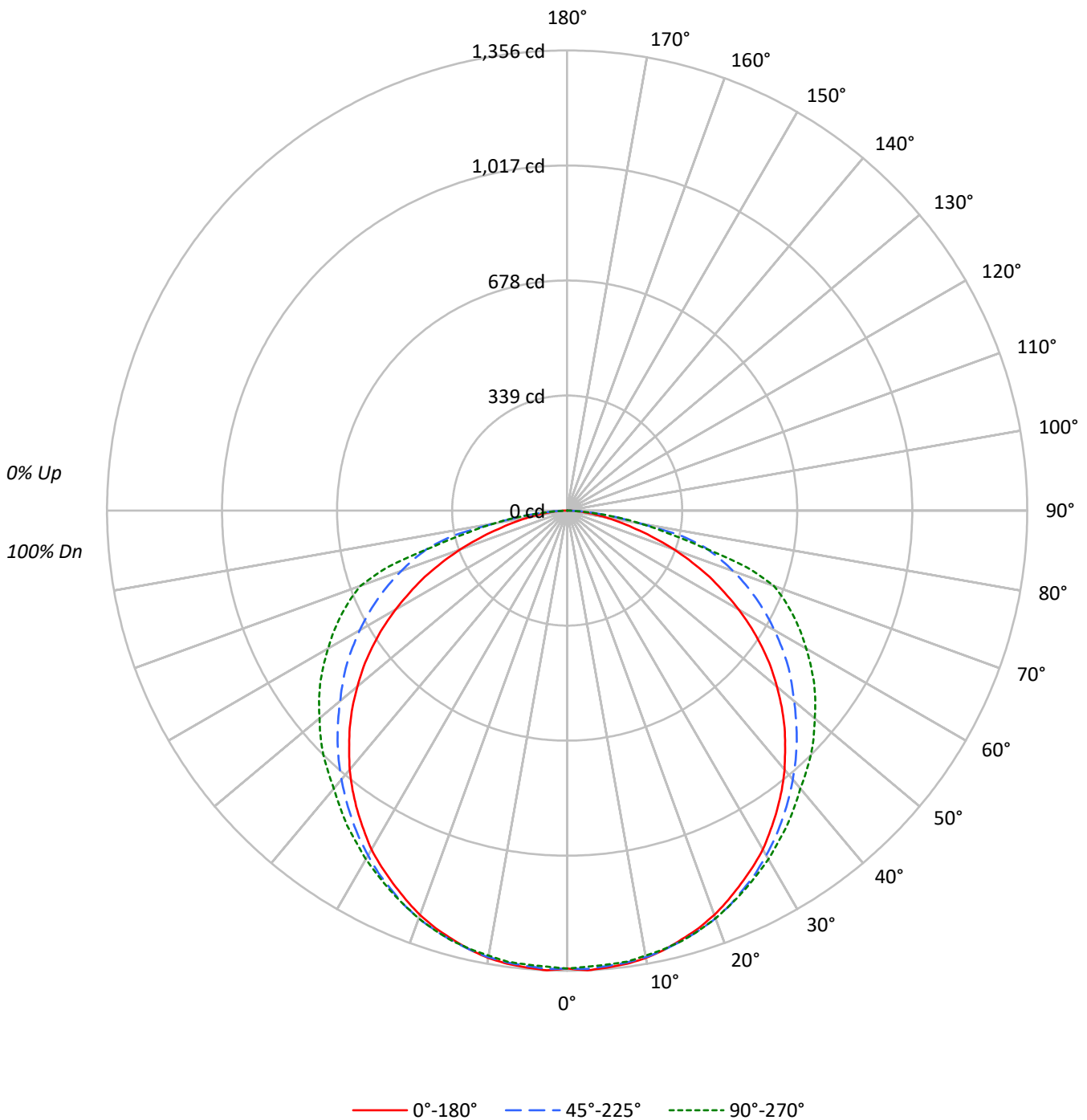
Input Watts (W): 58.497
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1816	1816	1816
5°	1826	1820	1814
10°	1829	1826	1820
15°	1821	1828	1828
20°	1815	1831	1831
25°	1801	1827	1833
30°	1792	1823	1843
35°	1771	1818	1858
40°	1751	1816	1878
45°	1725	1821	1934
50°	1689	1828	1994
55°	1645	1862	2084
60°	1572	1899	2190
65°	1474	1959	2345
70°	1319	2047	2550
75°	1089	2190	2109
80°	889	1691	1709
85°	715	1124	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.0
10°-20°	369.8	8.7
20°-30°	565.2	13.2
30°-40°	691.3	16.2
40°-50°	739.7	17.3
50°-60°	708.3	16.6
60°-70°	599.2	14.0
70°-80°	379.8	8.9
80°-90°	87.4	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°	1063.2	24.9
0°-40°	1754.6	41.1
0°-60°	3202.6	75.0
0°-90°	4269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1352	1345	1347	1345	1343	129
15°	1308	1305	1312	1312	1312	369
25°	1213	1213	1230	1235	1235	560
35°	1078	1085	1107	1122	1131	675
45°	906	922	957	997	1016	698
55°	701	723	794	860	889	625
65°	463	507	615	699	736	456
75°	210	296	421	419	406	228
85°	46	71	73	66	68	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.5	1349.5	1349.5	1349.5	1349.5
2.5°	1356.1	1349.5	1351.7	1349.5	1345.1
5°	1351.7	1345.1	1347.3	1345.1	1342.9
7.5°	1347.3	1340.7	1342.9	1340.7	1340.7
10°	1338.5	1331.9	1336.3	1334.1	1331.9
12.5°	1325.3	1320.8	1325.3	1323.0	1323.0
15°	1307.6	1305.4	1312.0	1312.0	1312.0
17.5°	1290.0	1287.8	1296.6	1296.6	1296.6
20°	1267.9	1265.7	1278.9	1278.9	1278.9
22.5°	1241.5	1239.3	1256.9	1256.9	1256.9
25°	1212.8	1212.8	1230.4	1234.8	1234.8
27.5°	1184.1	1184.1	1204.0	1210.6	1210.6
30°	1153.3	1153.3	1173.1	1181.9	1186.3
32.5°	1115.8	1120.2	1142.2	1153.3	1157.7
35°	1078.3	1084.9	1107.0	1122.4	1131.2
37.5°	1038.6	1045.2	1071.7	1089.3	1100.3
40°	996.7	1005.5	1034.2	1056.2	1069.5
42.5°	950.4	963.6	996.7	1025.4	1043.0
45°	906.3	921.7	957.0	996.7	1016.5
47.5°	857.8	875.4	915.1	965.8	985.7
50°	807.1	824.7	873.2	930.5	952.6
52.5°	756.3	776.2	833.5	895.3	921.7
55°	701.2	723.3	793.8	860.0	888.6
57.5°	643.9	670.3	749.7	820.3	851.2
60°	584.3	617.4	705.6	780.6	813.7
62.5°	522.6	562.3	661.5	740.9	776.2
65°	463.1	507.2	615.2	699.0	736.5
67.5°	399.1	454.2	568.9	659.3	694.6
70°	335.2	399.1	520.4	613.0	648.3
72.5°	271.2	348.4	471.9	555.7	555.7
75°	209.5	295.5	421.2	419.0	405.7
77.5°	158.8	247.0	346.2	295.5	297.7
80°	114.7	198.5	218.3	218.3	220.5
82.5°	77.2	152.2	141.1	138.9	143.3
85°	46.3	70.6	72.8	66.2	68.4
87.5°	22.1	24.3	19.8	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)