

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: P263102

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263102
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-LD5-60-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3774.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

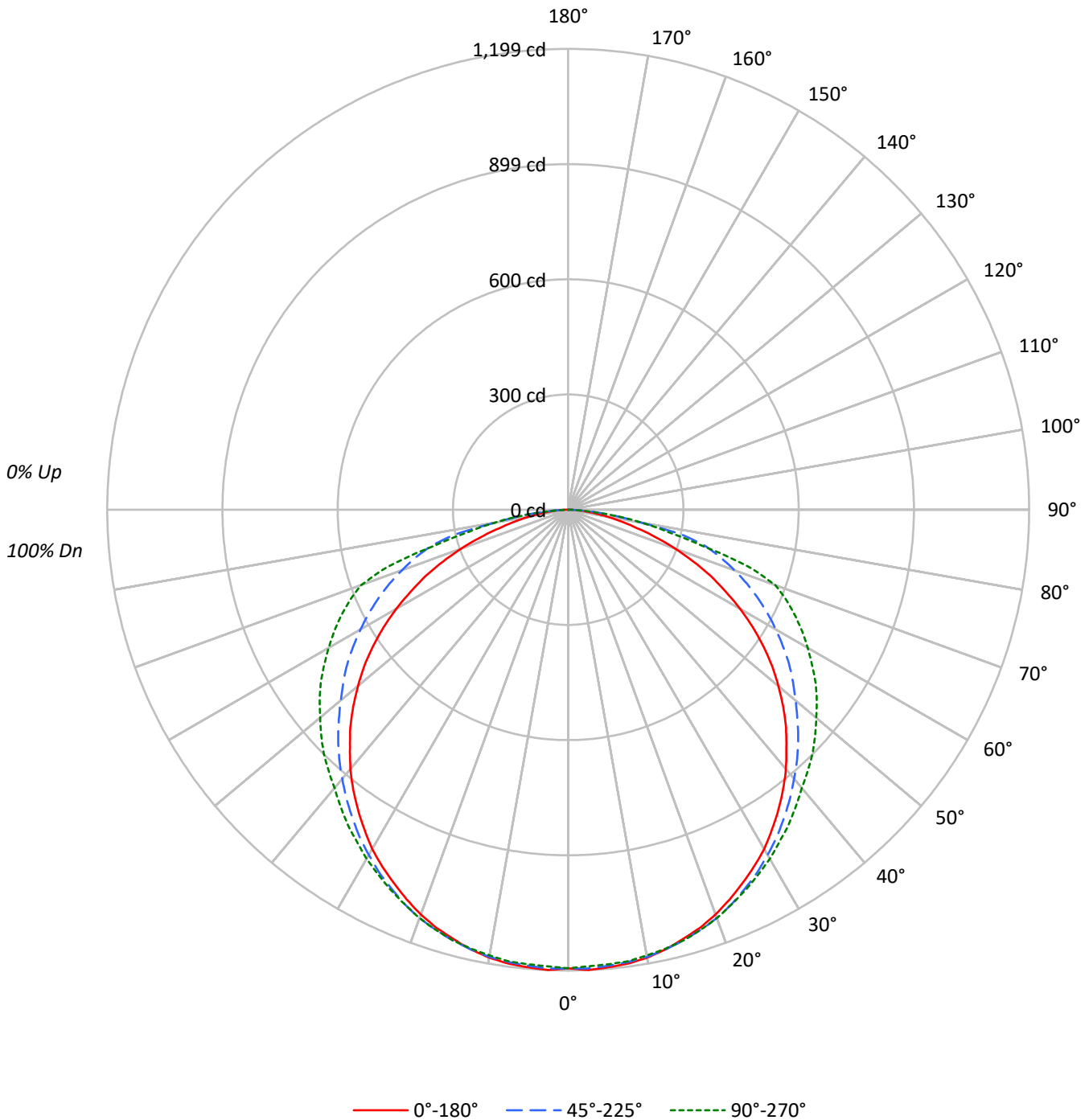
Input Watts (W): 44.179464
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263102

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263102

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L83050-W2A1-U-3000K

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°	1605	1605	1605
5°	1614	1609	1603
10°	1617	1614	1609
15°	1610	1616	1616
20°	1605	1619	1619
25°	1592	1615	1621
30°	1584	1611	1629
35°	1566	1607	1643
40°	1548	1606	1661
45°	1525	1610	1710
50°	1494	1616	1763
55°	1454	1646	1843
60°	1390	1679	1936
65°	1303	1732	2073
70°	1166	1810	2255
75°	963	1935	1865
80°	786	1495	1510
85°	631	993	932



TEST NUMBER: P263102

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.0
10°-20°	327.0	8.7
20°-30°	499.7	13.2
30°-40°	611.2	16.2
40°-50°	653.9	17.3
50°-60°	626.2	16.6
60°-70°	529.7	14.0
70°-80°	335.8	8.9
80°-90°	77.2	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°	940.0	24.9
0°-40°	1551.1	41.1
0°-60°	2831.3	75.0
0°-90°	3774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1195	1189	1191	1189	1187	114
15°	1156	1154	1160	1160	1160	327
25°	1072	1072	1088	1092	1092	495
35°	953	959	979	992	1000	596
45°	801	815	846	881	899	617
55°	620	639	702	760	786	553
65°	409	448	544	618	651	403
75°	185	261	372	370	359	201
85°	41	62	64	58	60	49
90°	0	0	0	0	0	



TEST NUMBER: P263102

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.0	1193.0	1193.0	1193.0	1193.0
2.5°	1198.9	1193.0	1195.0	1193.0	1189.1
5°	1195.0	1189.1	1191.1	1189.1	1187.2
7.5°	1191.1	1185.2	1187.2	1185.2	1185.2
10°	1183.3	1177.4	1181.3	1179.4	1177.4
12.5°	1171.6	1167.7	1171.6	1169.6	1169.6
15°	1156.0	1154.0	1159.9	1159.9	1159.9
17.5°	1140.4	1138.4	1146.2	1146.2	1146.2
20°	1120.9	1119.0	1130.7	1130.7	1130.7
22.5°	1097.5	1095.6	1111.2	1111.2	1111.2
25°	1072.2	1072.2	1087.8	1091.7	1091.7
27.5°	1046.8	1046.8	1064.4	1070.2	1070.2
30°	1019.5	1019.5	1037.1	1044.9	1048.8
32.5°	986.4	990.3	1009.8	1019.5	1023.4
35°	953.3	959.1	978.6	992.2	1000.0
37.5°	918.2	924.0	947.4	963.0	972.8
40°	881.1	888.9	914.3	933.8	945.5
42.5°	840.2	851.9	881.1	906.5	922.1
45°	801.2	814.8	846.0	881.1	898.7
47.5°	758.3	773.9	809.0	853.8	871.4
50°	713.5	729.1	772.0	822.6	842.1
52.5°	668.6	686.2	736.9	791.5	814.8
55°	619.9	639.4	701.8	760.3	785.6
57.5°	569.2	592.6	662.8	725.2	752.5
60°	516.6	545.8	623.8	690.1	719.3
62.5°	462.0	497.1	584.8	655.0	686.2
65°	409.4	448.4	543.9	618.0	651.1
67.5°	352.8	401.6	502.9	582.9	614.1
70°	296.3	352.8	460.1	541.9	573.1
72.5°	239.8	308.0	417.2	491.2	491.2
75°	185.2	261.2	372.3	370.4	358.7
77.5°	140.4	218.3	306.1	261.2	263.2
80°	101.4	175.4	193.0	193.0	194.9
82.5°	68.2	134.5	124.8	122.8	126.7
85°	40.9	62.4	64.3	58.5	60.4
87.5°	19.5	21.4	17.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)