

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: P260809

Luminaire Tested: **24CZ-LD5-35SE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3718.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

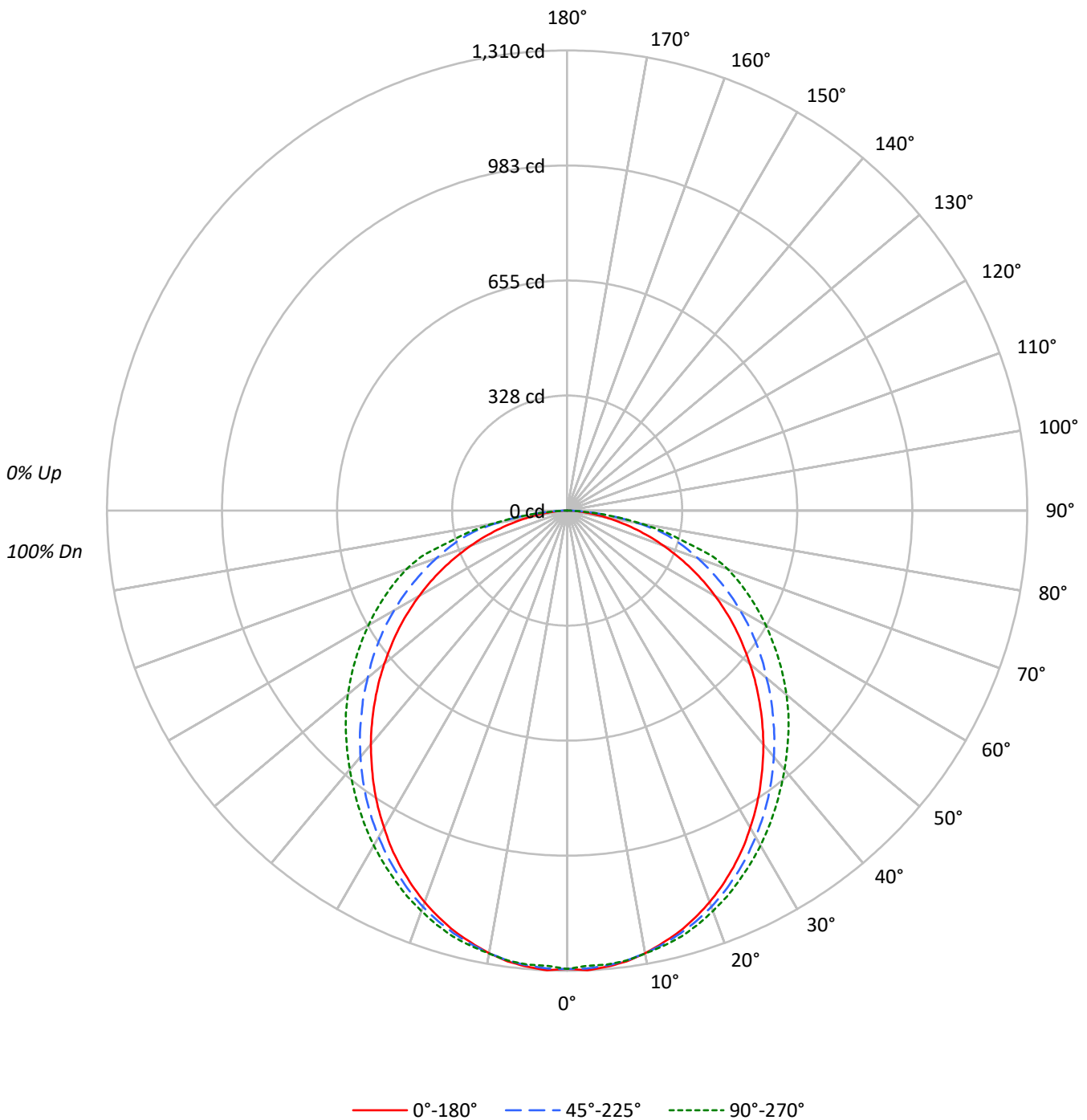
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260809

CATALOG NUMBER: 24CZ-LD5-35SE-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P260809

CATALOG NUMBER: 24CZ-LD5-35SE-UNV-L82765-W2A1-U-6500K

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1756	1756	1756
5°	1761	1755	1752
10°	1748	1748	1750
15°	1727	1736	1748
20°	1699	1719	1737
25°	1663	1695	1724
30°	1620	1667	1711
35°	1575	1639	1698
40°	1527	1608	1690
45°	1475	1577	1696
50°	1423	1551	1705
55°	1371	1541	1723
60°	1309	1531	1757
65°	1240	1532	1816
70°	1147	1557	1913
75°	1026	1628	1820
80°	859	1558	1667
85°	648	1200	1139



TEST NUMBER: P260809

CATALOG NUMBER: 24CZ-LD5-35SE-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.3
10°-20°	350.9	9.4
20°-30°	524.6	14.1
30°-40°	622.4	16.7
40°-50°	640.6	17.2
50°-60°	587.6	15.8
60°-70°	475.1	12.8
70°-80°	308.4	8.3
80°-90°	85.0	2.3
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°	998.9	26.9
0°-40°	1621.2	43.6
0°-60°	2849.5	76.6
0°-90°	3718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1304	1295	1300	1298	1297	124
15°	1240	1235	1246	1251	1255	349
25°	1120	1122	1142	1152	1161	516
35°	959	966	998	1020	1034	599
45°	775	788	829	868	891	598
55°	584	602	657	710	734	522
65°	390	412	481	545	570	385
75°	197	234	313	350	350	210
85°	42	71	78	75	74	51
90°	0	0	0	0	0	



TEST NUMBER: P260809

CATALOG NUMBER: 24CZ-LD5-35SE-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1309.9	1299.7	1304.8	1303.6	1297.2
5°	1303.6	1294.6	1299.7	1298.5	1297.2
7.5°	1294.6	1285.7	1292.1	1290.8	1292.1
10°	1279.4	1271.7	1279.4	1280.6	1280.6
12.5°	1260.3	1253.9	1264.1	1266.6	1269.2
15°	1239.9	1234.8	1246.3	1251.4	1255.2
17.5°	1214.4	1210.6	1224.6	1231.0	1236.1
20°	1186.4	1185.2	1200.4	1206.8	1213.2
22.5°	1154.6	1154.6	1172.4	1180.1	1189.0
25°	1120.2	1121.5	1141.9	1152.1	1161.0
27.5°	1083.3	1084.6	1108.8	1121.5	1131.7
30°	1042.6	1047.7	1073.1	1089.7	1101.1
32.5°	1001.9	1008.2	1036.2	1055.3	1068.0
35°	958.6	966.2	998.0	1019.7	1033.7
37.5°	914.0	922.9	957.3	981.5	998.0
40°	869.5	879.6	915.3	943.3	962.4
42.5°	822.4	833.8	873.3	906.4	926.7
45°	775.3	788.0	828.7	868.2	891.1
47.5°	728.2	743.4	786.7	830.0	854.2
50°	679.8	695.1	740.9	790.5	814.7
52.5°	631.4	649.2	700.1	751.1	775.3
55°	584.3	602.1	656.9	710.3	734.5
57.5°	535.9	553.8	613.6	669.6	693.8
60°	486.3	506.7	569.0	626.3	653.0
62.5°	437.9	459.6	525.7	586.9	612.3
65°	389.5	412.5	481.2	544.8	570.3
67.5°	339.9	366.6	437.9	502.8	529.6
70°	291.5	320.8	395.9	460.8	486.3
72.5°	244.4	276.2	353.9	420.1	435.4
75°	197.3	234.2	313.2	350.1	350.1
77.5°	152.8	193.5	267.3	281.3	289.0
80°	110.8	155.3	201.1	217.7	215.1
82.5°	73.8	118.4	143.8	143.8	140.0
85°	42.0	71.3	77.7	75.1	73.8
87.5°	17.8	26.7	24.2	19.1	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)