

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: P261216

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

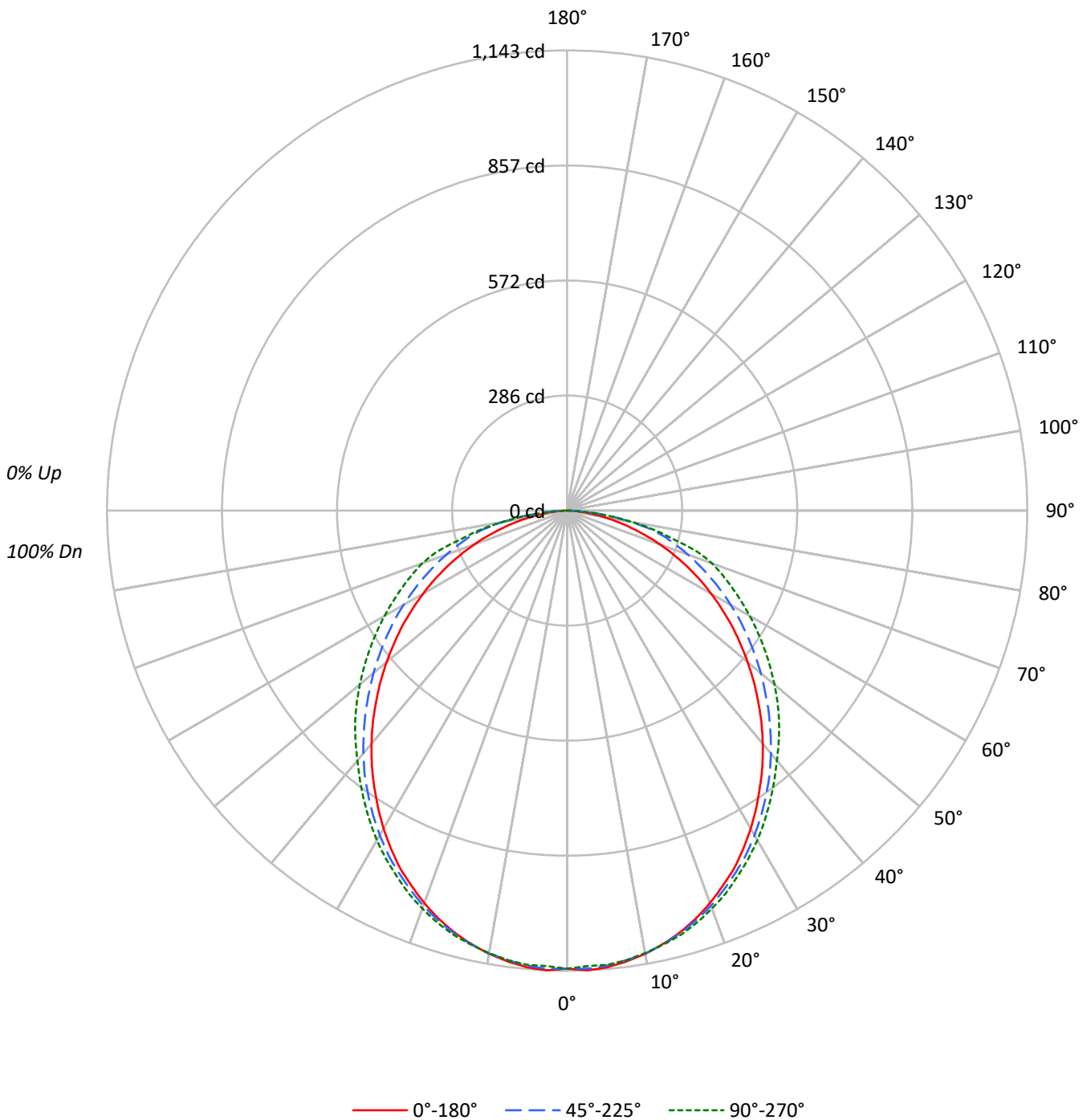
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1531	1531	1531
5°	1538	1533	1530
10°	1527	1526	1525
15°	1511	1514	1519
20°	1485	1496	1506
25°	1456	1472	1487
30°	1417	1446	1469
35°	1373	1415	1445
40°	1328	1383	1424
45°	1278	1347	1417
50°	1226	1313	1407
55°	1173	1285	1403
60°	1112	1264	1410
65°	1046	1249	1438
70°	963	1255	1506
75°	854	1299	1403
80°	713	1232	1264
85°	533	985	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.4
10°-20°	305.9	9.7
20°-30°	455.9	14.5
30°-40°	536.7	17.1
40°-50°	545.4	17.4
50°-60°	490.4	15.6
60°-70°	387.4	12.3
70°-80°	245.8	7.8
80°-90°	67.8	2.2
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°	869.5	27.7
0°-40°	1406.2	44.7
0°-60°	2442.0	77.7
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1139	1130	1135	1133	1133	108
15°	1084	1079	1087	1090	1091	305
25°	981	980	991	998	1002	451
35°	836	841	862	871	880	523
45°	671	681	708	729	745	518
55°	500	512	548	584	598	446
65°	328	345	392	435	452	325
75°	164	192	250	272	270	175
85°	34	60	64	59	59	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.8	1137.8	1137.8	1137.8	1137.8
2.5°	1143.1	1134.7	1138.9	1136.8	1132.6
5°	1138.9	1129.5	1134.7	1132.6	1132.6
7.5°	1129.5	1122.1	1126.3	1125.3	1126.3
10°	1118.0	1110.6	1116.9	1116.9	1115.9
12.5°	1102.3	1096.0	1103.3	1103.3	1104.4
15°	1084.5	1079.3	1086.6	1089.7	1090.8
17.5°	1062.5	1057.3	1066.7	1069.8	1073.0
20°	1037.4	1035.3	1044.7	1047.9	1052.1
22.5°	1009.2	1009.2	1018.6	1022.8	1029.1
25°	981.0	979.9	991.4	997.7	1001.9
27.5°	947.5	948.5	963.2	969.5	974.7
30°	911.9	914.0	930.8	938.1	945.4
32.5°	874.3	878.5	897.3	905.7	913.0
35°	835.6	840.8	861.7	871.1	879.5
37.5°	796.9	804.2	826.2	835.6	845.0
40°	756.1	762.4	787.5	799.0	810.5
42.5°	714.3	722.6	747.7	764.5	778.1
45°	671.4	680.8	708.0	728.9	744.6
47.5°	628.5	641.1	667.2	695.5	709.0
50°	585.6	598.2	627.5	658.9	672.4
52.5°	541.7	554.3	587.7	620.2	634.8
55°	499.9	512.4	548.0	583.6	598.2
57.5°	456.0	469.6	509.3	545.9	560.5
60°	413.1	426.7	469.6	508.3	523.9
62.5°	371.3	385.9	430.9	471.7	487.3
65°	328.4	345.1	392.2	435.1	451.8
67.5°	286.5	305.4	354.5	399.5	417.3
70°	244.7	266.7	319.0	365.0	382.8
72.5°	203.9	228.0	283.4	329.4	338.8
75°	164.2	192.4	249.9	271.9	269.8
77.5°	126.5	157.9	212.3	216.5	222.8
80°	92.0	126.5	159.0	167.3	163.1
82.5°	60.7	95.2	114.0	109.8	108.8
85°	34.5	59.6	63.8	58.6	58.6
87.5°	14.6	24.1	20.9	15.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)