

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: P260607

Luminaire Tested: **24CZ-LD5-35SE-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260607
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3361.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

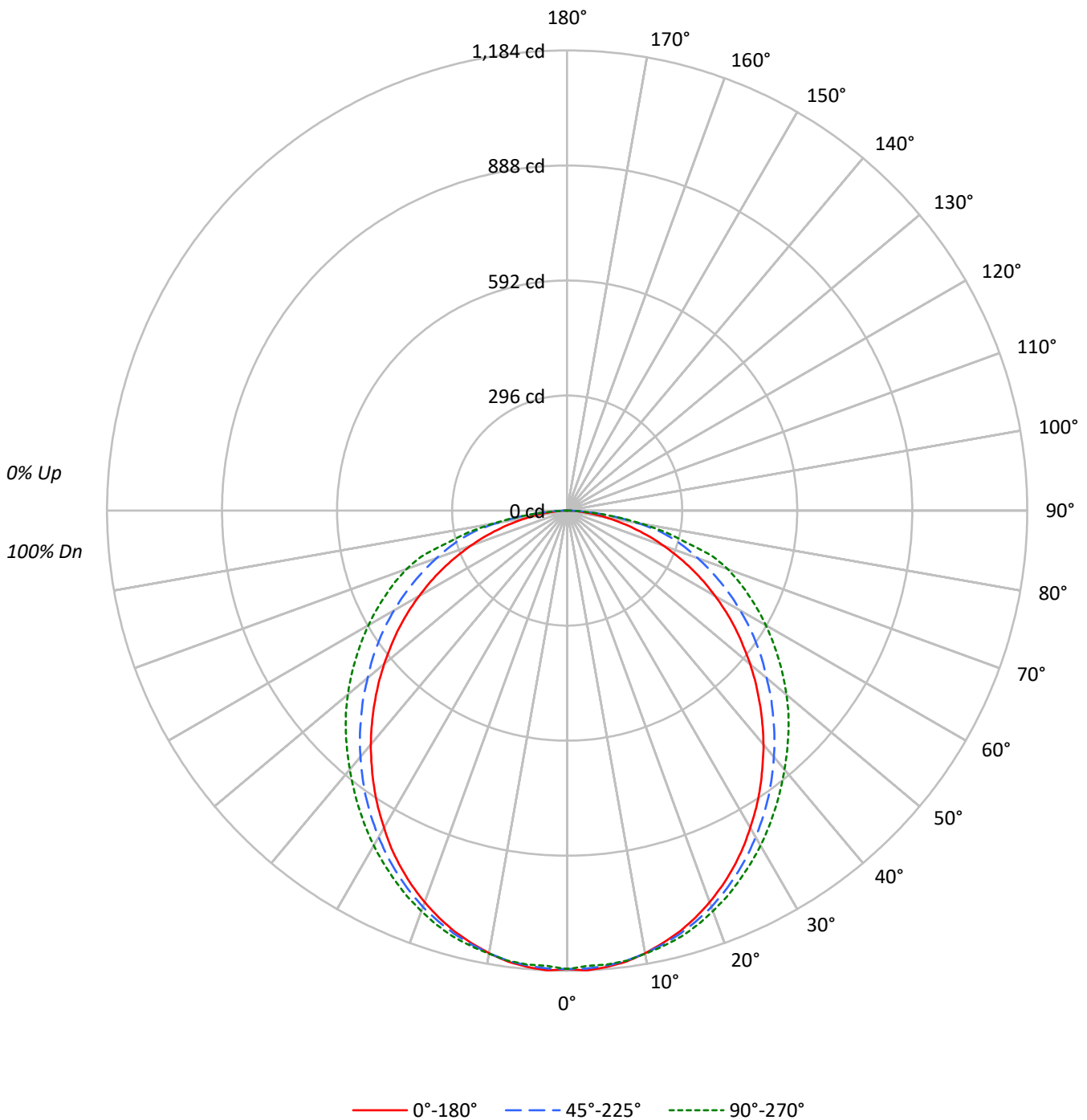
Input Watts (W): 25.98792
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1587	1587	1587
5°	1592	1587	1584
10°	1580	1580	1582
15°	1561	1569	1581
20°	1536	1554	1570
25°	1503	1532	1558
30°	1464	1507	1546
35°	1423	1482	1535
40°	1381	1453	1528
45°	1333	1425	1533
50°	1286	1402	1542
55°	1239	1393	1558
60°	1183	1384	1588
65°	1121	1385	1641
70°	1037	1408	1729
75°	927	1472	1645
80°	776	1409	1507
85°	587	1084	1030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.3
10°-20°	317.2	9.4
20°-30°	474.2	14.1
30°-40°	562.6	16.7
40°-50°	579.1	17.2
50°-60°	531.2	15.8
60°-70°	429.5	12.8
70°-80°	278.8	8.3
80°-90°	76.9	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°	902.9	26.9
0°-40°	1465.6	43.6
0°-60°	2575.8	76.6
0°-90°	3361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1178	1170	1175	1174	1173	112
15°	1121	1116	1127	1131	1135	316
25°	1013	1014	1032	1041	1050	466
35°	866	873	902	922	934	542
45°	701	712	749	785	806	541
55°	528	544	594	642	664	472
65°	352	373	435	492	516	348
75°	178	212	283	316	316	190
85°	38	64	70	68	67	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1184.1	1174.9	1179.5	1178.4	1172.6
5°	1178.4	1170.3	1174.9	1173.8	1172.6
7.5°	1170.3	1162.3	1168.0	1166.9	1168.0
10°	1156.5	1149.6	1156.5	1157.7	1157.7
12.5°	1139.3	1133.5	1142.7	1145.0	1147.3
15°	1120.8	1116.2	1126.6	1131.2	1134.7
17.5°	1097.8	1094.4	1107.0	1112.8	1117.4
20°	1072.5	1071.4	1085.2	1090.9	1096.7
22.5°	1043.7	1043.7	1059.9	1066.8	1074.8
25°	1012.7	1013.8	1032.2	1041.4	1049.5
27.5°	979.3	980.5	1002.3	1013.8	1023.0
30°	942.5	947.1	970.1	985.1	995.4
32.5°	905.7	911.4	936.7	954.0	965.5
35°	866.5	873.4	902.2	921.8	934.4
37.5°	826.3	834.3	865.4	887.2	902.2
40°	786.0	795.2	827.4	852.7	870.0
42.5°	743.4	753.8	789.4	819.3	837.8
45°	700.8	712.3	749.1	784.8	805.5
47.5°	658.2	672.0	711.2	750.3	772.2
50°	614.5	628.3	669.7	714.6	736.5
52.5°	570.8	586.9	632.9	679.0	700.8
55°	528.2	544.3	593.8	642.1	664.0
57.5°	484.5	500.6	554.7	605.3	627.2
60°	439.6	458.0	514.4	566.2	590.3
62.5°	395.9	415.4	475.3	530.5	553.5
65°	352.1	372.8	435.0	492.5	515.5
67.5°	307.3	331.4	395.9	454.6	478.7
70°	263.5	290.0	357.9	416.6	439.6
72.5°	220.9	249.7	319.9	379.8	393.6
75°	178.4	211.7	283.1	316.5	316.5
77.5°	138.1	174.9	241.7	254.3	261.2
80°	100.1	140.4	181.8	196.8	194.5
82.5°	66.7	107.0	130.0	130.0	126.6
85°	38.0	64.4	70.2	67.9	66.7
87.5°	16.1	24.2	21.9	17.3	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)