

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: P261360

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261360
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-LD5-35SE-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3287.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

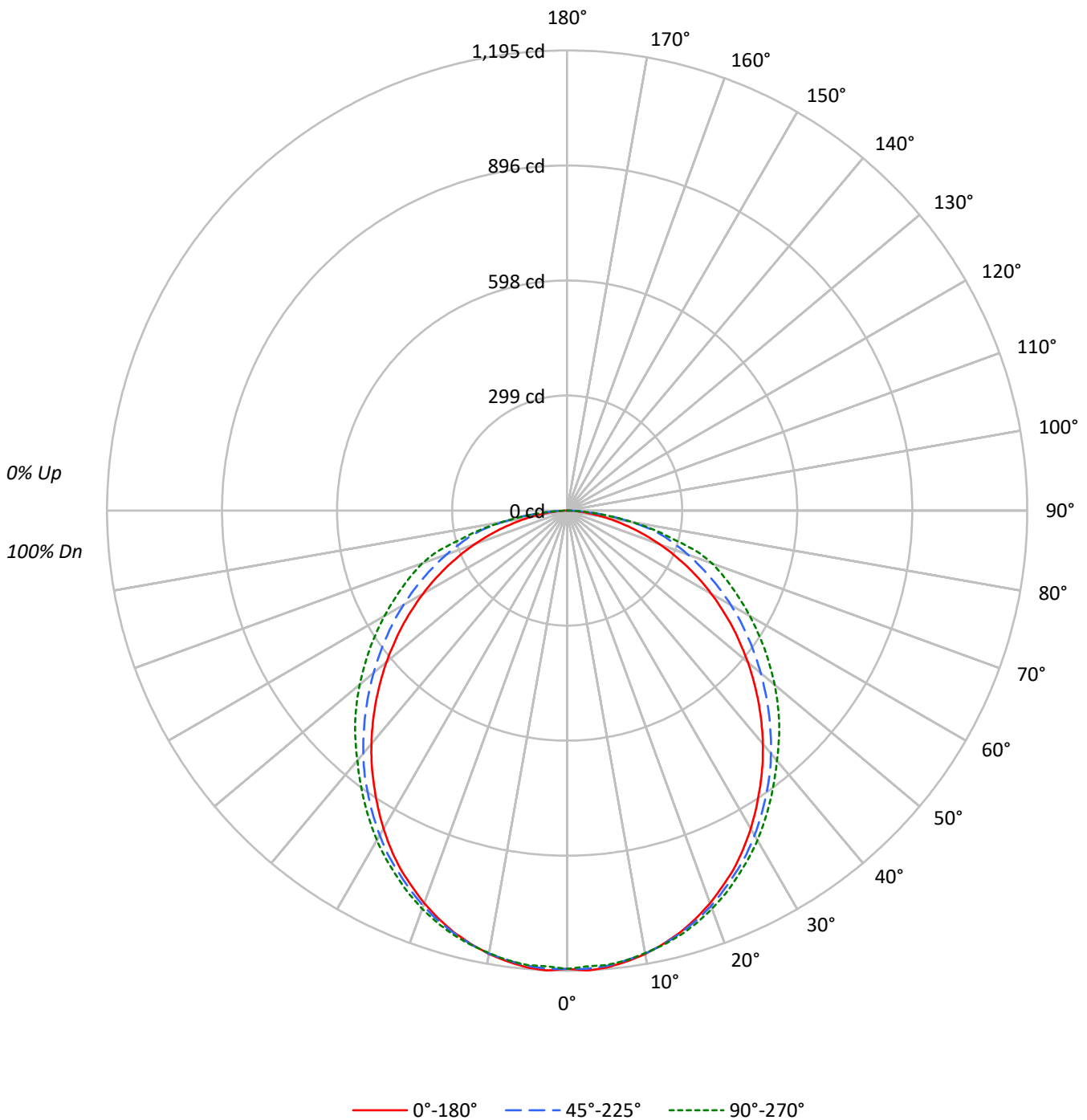
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1601	1601	1601
5°	1609	1603	1600
10°	1597	1596	1594
15°	1580	1583	1589
20°	1554	1564	1575
25°	1523	1539	1556
30°	1482	1512	1536
35°	1435	1480	1511
40°	1389	1447	1489
45°	1336	1409	1482
50°	1282	1374	1472
55°	1226	1344	1468
60°	1163	1322	1474
65°	1093	1306	1504
70°	1007	1312	1575
75°	893	1359	1467
80°	745	1288	1322
85°	557	1030	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.4
10°-20°	320.0	9.7
20°-30°	476.8	14.5
30°-40°	561.3	17.1
40°-50°	570.4	17.4
50°-60°	512.8	15.6
60°-70°	405.2	12.3
70°-80°	257.0	7.8
80°-90°	70.9	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°	909.3	27.7
0°-40°	1470.6	44.7
0°-60°	2553.9	77.7
0°-90°	3287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1191	1181	1187	1184	1184	113
15°	1134	1129	1136	1140	1141	319
25°	1026	1025	1037	1043	1048	472
35°	874	879	901	911	920	547
45°	702	712	740	762	779	542
55°	523	536	573	610	626	467
65°	343	361	410	455	472	340
75°	172	201	261	284	282	183
85°	36	62	67	61	61	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1195.4	1186.7	1191.0	1188.9	1184.5
5°	1191.0	1181.2	1186.7	1184.5	1184.5
7.5°	1181.2	1173.5	1177.9	1176.8	1177.9
10°	1169.2	1161.5	1168.1	1168.1	1167.0
12.5°	1152.8	1146.2	1153.9	1153.9	1155.0
15°	1134.2	1128.7	1136.4	1139.6	1140.7
17.5°	1111.2	1105.7	1115.6	1118.9	1122.1
20°	1085.0	1082.8	1092.6	1095.9	1100.3
22.5°	1055.4	1055.4	1065.3	1069.6	1076.2
25°	1025.9	1024.8	1036.8	1043.4	1047.8
27.5°	990.9	992.0	1007.3	1013.9	1019.3
30°	953.7	955.9	973.4	981.1	988.7
32.5°	914.3	918.7	938.4	947.2	954.8
35°	873.9	879.3	901.2	911.1	919.8
37.5°	833.4	841.1	864.0	873.9	883.7
40°	790.8	797.3	823.6	835.6	847.6
42.5°	747.0	755.8	782.0	799.5	813.7
45°	702.2	712.0	740.4	762.3	778.7
47.5°	657.3	670.4	697.8	727.3	741.5
50°	612.5	625.6	656.2	689.0	703.3
52.5°	566.5	579.7	614.7	648.6	663.9
55°	522.8	535.9	573.1	610.3	625.6
57.5°	476.9	491.1	532.6	570.9	586.2
60°	432.0	446.2	491.1	531.5	547.9
62.5°	388.3	403.6	450.6	493.3	509.7
65°	343.4	360.9	410.1	455.0	472.5
67.5°	299.7	319.4	370.8	417.8	436.4
70°	255.9	278.9	333.6	381.7	400.3
72.5°	213.3	238.4	296.4	344.5	354.4
75°	171.7	201.2	261.4	284.4	282.2
77.5°	132.3	165.1	222.0	226.4	233.0
80°	96.2	132.3	166.2	175.0	170.6
82.5°	63.4	99.5	119.2	114.8	113.7
85°	36.1	62.3	66.7	61.2	61.2
87.5°	15.3	25.2	21.9	16.4	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)