

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: P260936

Luminaire Tested: **24CZ-LD5-35SE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260936  
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-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2787.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 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

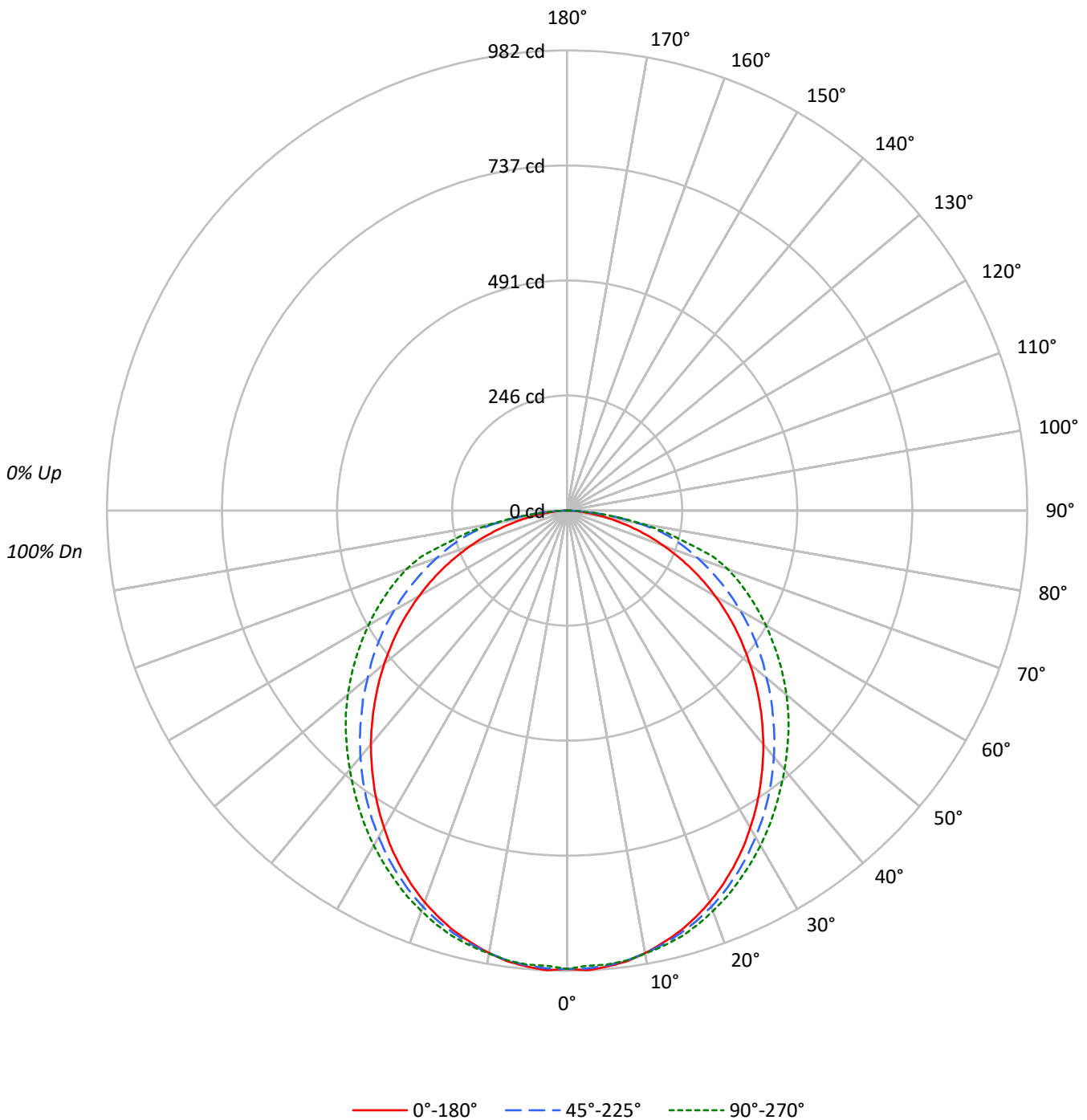
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1316	1316	1316
5°	1320	1316	1313
10°	1310	1310	1312
15°	1295	1301	1311
20°	1273	1288	1302
25°	1247	1271	1292
30°	1214	1250	1282
35°	1180	1229	1273
40°	1145	1205	1267
45°	1106	1182	1271
50°	1067	1163	1278
55°	1027	1155	1292
60°	981	1148	1317
65°	930	1148	1361
70°	860	1168	1434
75°	769	1220	1364
80°	643	1168	1250
85°	486	898	854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	3.3
10°-20°	263.1	9.4
20°-30°	393.3	14.1
30°-40°	466.5	16.7
40°-50°	480.2	17.2
50°-60°	440.5	15.8
60°-70°	356.2	12.8
70°-80°	231.1	8.3
80°-90°	63.7	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°	748.7	26.9
0°-40°	1215.3	43.6
0°-60°	2135.9	76.6
0°-90°	2787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2787.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	977	970	974	973	972	93
15°	929	926	934	938	941	262
25°	840	841	856	864	870	387
35°	718	724	748	764	775	449
45°	581	591	621	651	668	448
55°	438	451	492	532	551	391
65°	292	309	361	408	428	289
75°	148	176	235	262	262	157
85°	32	53	58	56	55	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	978.1	978.1	978.1	978.1	978.1
2.5°	981.9	974.3	978.1	977.1	972.4
5°	977.1	970.5	974.3	973.3	972.4
7.5°	970.5	963.8	968.5	967.6	968.5
10°	959.0	953.3	959.0	960.0	960.0
12.5°	944.7	939.9	947.6	949.5	951.4
15°	929.4	925.6	934.2	938.0	940.9
17.5°	910.3	907.5	918.0	922.7	926.6
20°	889.3	888.4	899.8	904.6	909.4
22.5°	865.5	865.5	878.9	884.6	891.3
25°	839.7	840.7	855.9	863.6	870.3
27.5°	812.1	813.0	831.1	840.7	848.3
30°	781.5	785.3	804.4	816.8	825.4
32.5°	751.0	755.8	776.7	791.1	800.6
35°	718.5	724.3	748.1	764.3	774.8
37.5°	685.1	691.8	717.6	735.7	748.1
40°	651.7	659.4	686.1	707.1	721.4
42.5°	616.4	625.0	654.6	679.4	694.7
45°	581.1	590.7	621.2	650.8	668.0
47.5°	545.8	557.3	589.7	622.2	640.3
50°	509.6	521.0	555.4	592.6	610.7
52.5°	473.3	486.7	524.8	563.0	581.1
55°	438.0	451.4	492.4	532.5	550.6
57.5°	401.7	415.1	459.9	501.9	520.1
60°	364.5	379.8	426.5	469.5	489.5
62.5°	328.3	344.5	394.1	439.9	459.0
65°	292.0	309.2	360.7	408.4	427.5
67.5°	254.8	274.8	328.3	376.9	397.0
70°	218.5	240.5	296.8	345.4	364.5
72.5°	183.2	207.1	265.3	314.9	326.3
75°	147.9	175.6	234.7	262.4	262.4
77.5°	114.5	145.0	200.4	210.9	216.6
80°	83.0	116.4	150.8	163.2	161.3
82.5°	55.3	88.7	107.8	107.8	105.0
85°	31.5	53.4	58.2	56.3	55.3
87.5°	13.4	20.0	18.1	14.3	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)