

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: P263463

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2220.0 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

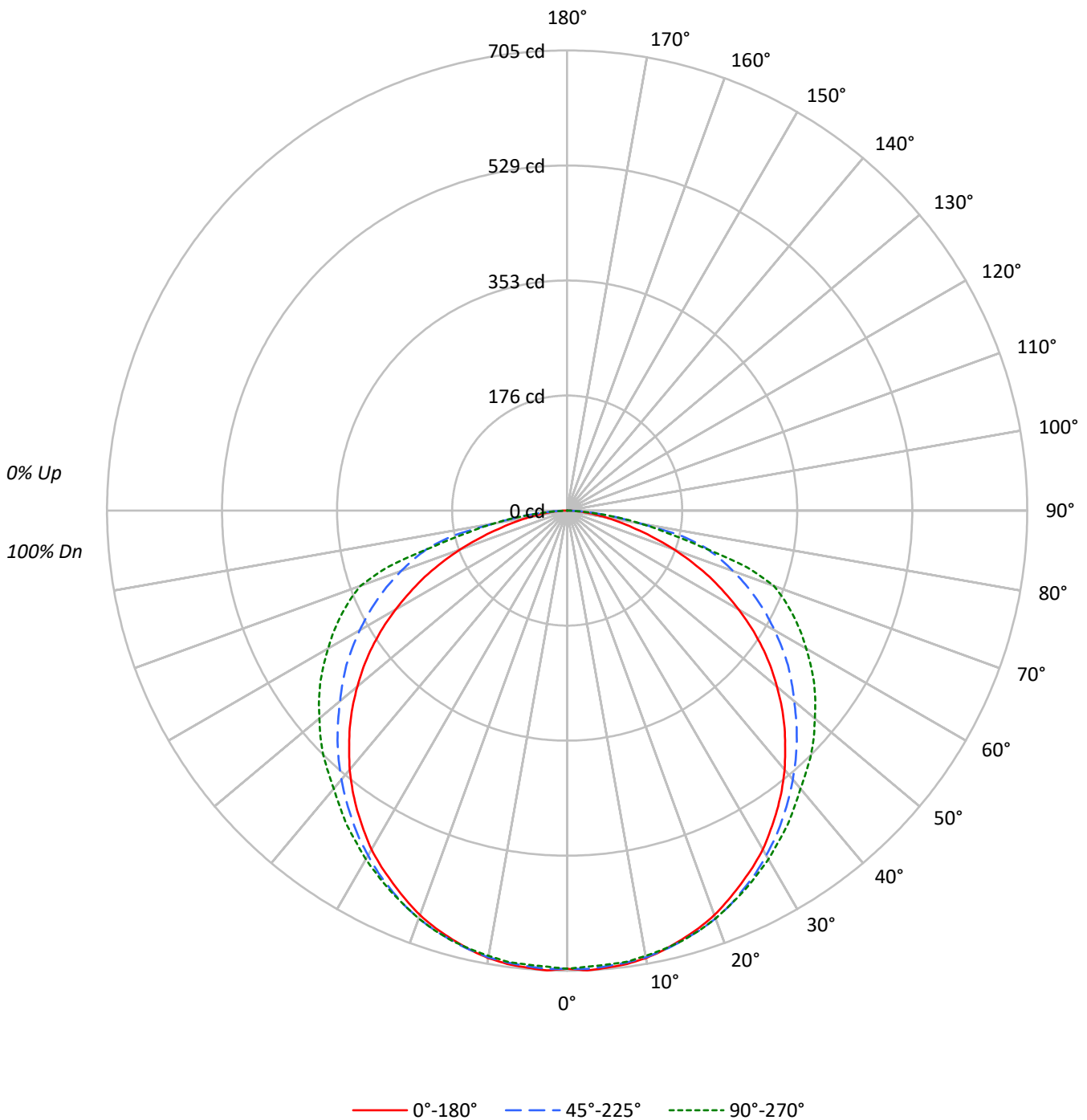
Input Watts (W): 26.877  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	944	944	944
5°	949	946	943
10°	951	949	946
15°	947	950	950
20°	944	952	952
25°	936	950	953
30°	932	948	958
35°	921	945	966
40°	910	945	977
45°	897	947	1006
50°	879	951	1037
55°	856	968	1084
60°	818	987	1139
65°	767	1018	1219
70°	686	1065	1326
75°	566	1138	1097
80°	462	879	889
85°	372	584	548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.0
10°-20°	192.3	8.7
20°-30°	293.9	13.2
30°-40°	359.5	16.2
40°-50°	384.7	17.3
50°-60°	368.3	16.6
60°-70°	311.6	14.0
70°-80°	197.5	8.9
80°-90°	45.4	2.0
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°	552.9	24.9
0°-40°	912.4	41.1
0°-60°	1665.4	75.0
0°-90°	2220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2220.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	703	700	701	700	698	67
15°	680	679	682	682	682	192
25°	631	631	640	642	642	291
35°	561	564	576	584	588	351
45°	471	479	498	518	529	363
55°	365	376	413	447	462	325
65°	241	264	320	364	383	237
75°	109	154	219	218	211	118
85°	24	37	38	34	36	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	701.8	701.8	701.8	701.8	701.8
2.5°	705.2	701.8	702.9	701.8	699.5
5°	702.9	699.5	700.6	699.5	698.3
7.5°	700.6	697.2	698.3	697.2	697.2
10°	696.1	692.6	694.9	693.8	692.6
12.5°	689.2	686.9	689.2	688.0	688.0
15°	680.0	678.8	682.3	682.3	682.3
17.5°	670.8	669.7	674.3	674.3	674.3
20°	659.4	658.2	665.1	665.1	665.1
22.5°	645.6	644.4	653.6	653.6	653.6
25°	630.7	630.7	639.9	642.2	642.2
27.5°	615.8	615.8	626.1	629.5	629.5
30°	599.7	599.7	610.0	614.6	616.9
32.5°	580.2	582.5	594.0	599.7	602.0
35°	560.7	564.2	575.6	583.7	588.3
37.5°	540.1	543.5	557.3	566.5	572.2
40°	518.3	522.9	537.8	549.3	556.2
42.5°	494.2	501.1	518.3	533.2	542.4
45°	471.3	479.3	497.7	518.3	528.6
47.5°	446.1	455.2	475.9	502.3	512.6
50°	419.7	428.9	454.1	483.9	495.4
52.5°	393.3	403.6	433.5	465.6	479.3
55°	364.7	376.1	412.8	447.2	462.1
57.5°	334.8	348.6	389.9	426.6	442.6
60°	303.9	321.1	366.9	405.9	423.1
62.5°	271.8	292.4	344.0	385.3	403.6
65°	240.8	263.7	319.9	363.5	383.0
67.5°	207.6	236.2	295.8	342.9	361.2
70°	174.3	207.6	270.6	318.8	337.1
72.5°	141.0	181.2	245.4	289.0	289.0
75°	108.9	153.7	219.0	217.9	211.0
77.5°	82.6	128.4	180.0	153.7	154.8
80°	59.6	103.2	113.5	113.5	114.7
82.5°	40.1	79.1	73.4	72.2	74.5
85°	24.1	36.7	37.8	34.4	35.5
87.5°	11.5	12.6	10.3	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)