

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: P263273

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263273  
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-LD5-55-SQP-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3820.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

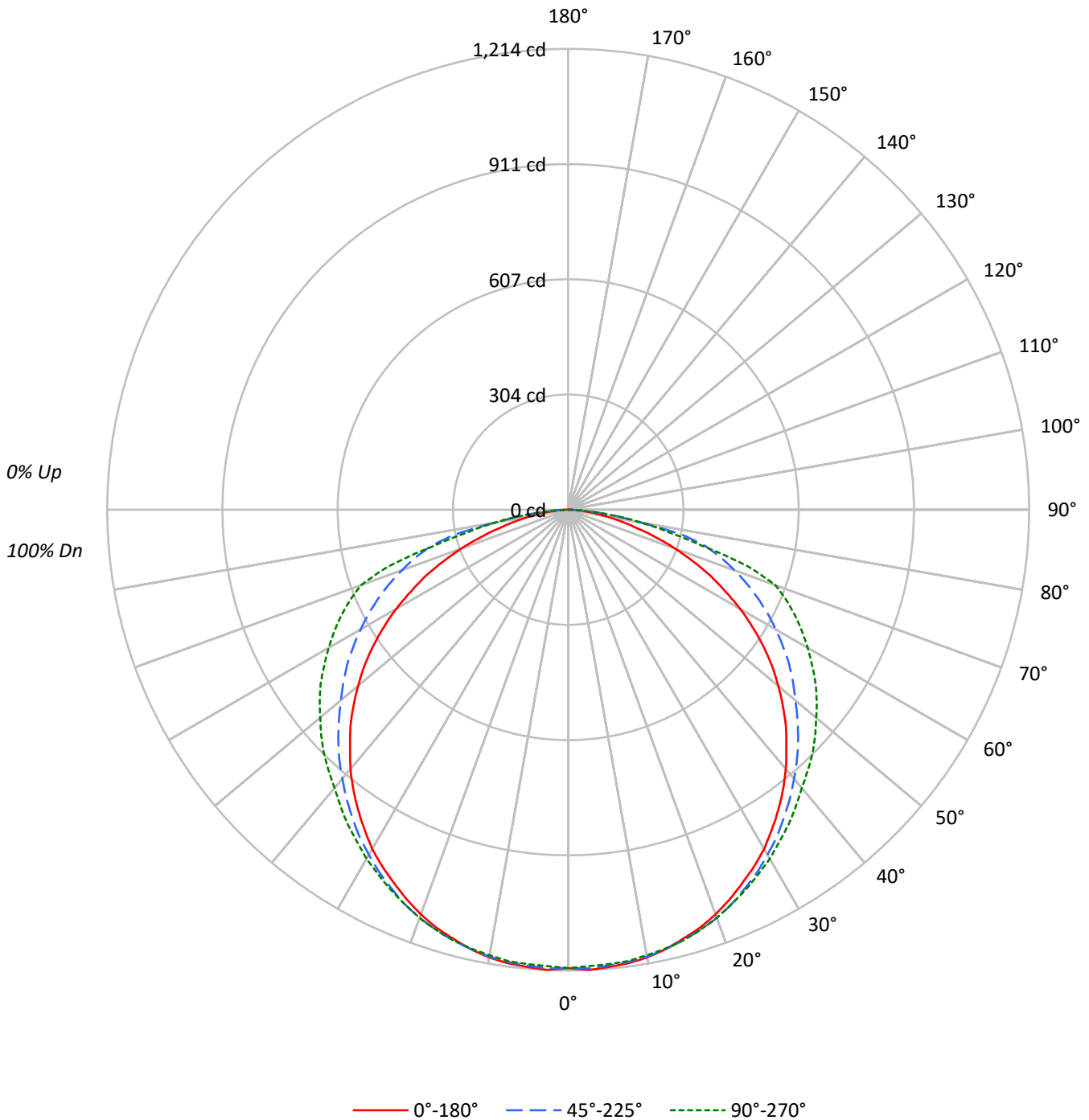
Input Watts (W): 41.199  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

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

	0°	45°	90°
0°	1625	1625	1625
5°	1634	1628	1623
10°	1636	1634	1628
15°	1630	1635	1635
20°	1625	1639	1639
25°	1611	1635	1640
30°	1603	1631	1649
35°	1585	1627	1663
40°	1567	1625	1681
45°	1543	1630	1731
50°	1512	1636	1784
55°	1472	1666	1865
60°	1407	1699	1959
65°	1319	1753	2098
70°	1180	1832	2282
75°	975	1959	1888
80°	795	1513	1529
85°	639	1005	945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.7	3.0
10°-20°	330.9	8.7
20°-30°	505.8	13.2
30°-40°	618.6	16.2
40°-50°	661.9	17.3
50°-60°	633.8	16.6
60°-70°	536.2	14.0
70°-80°	339.9	8.9
80°-90°	78.2	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°	951.4	24.9
0°-40°	1570.0	41.1
0°-60°	2865.8	75.0
0°-90°	3820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1210	1204	1206	1204	1202	115
15°	1170	1168	1174	1174	1174	330
25°	1085	1085	1101	1105	1105	501
35°	965	971	990	1004	1012	604
45°	811	825	856	892	910	625
55°	628	647	710	770	795	560
65°	414	454	550	626	659	408
75°	188	264	377	375	363	204
85°	41	63	65	59	61	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1207.6	1207.6	1207.6	1207.6	1207.6
2.5°	1213.5	1207.6	1209.5	1207.6	1203.6
5°	1209.5	1203.6	1205.6	1203.6	1201.7
7.5°	1205.6	1199.7	1201.7	1199.7	1199.7
10°	1197.7	1191.8	1195.7	1193.8	1191.8
12.5°	1185.9	1181.9	1185.9	1183.9	1183.9
15°	1170.1	1168.1	1174.0	1174.0	1174.0
17.5°	1154.3	1152.3	1160.2	1160.2	1160.2
20°	1134.6	1132.6	1144.4	1144.4	1144.4
22.5°	1110.9	1108.9	1124.7	1124.7	1124.7
25°	1085.2	1085.2	1101.0	1105.0	1105.0
27.5°	1059.6	1059.6	1077.3	1083.3	1083.3
30°	1032.0	1032.0	1049.7	1057.6	1061.6
32.5°	998.4	1002.4	1022.1	1032.0	1035.9
35°	964.9	970.8	990.5	1004.3	1012.2
37.5°	929.4	935.3	959.0	974.7	984.6
40°	891.9	899.8	925.4	945.1	957.0
42.5°	850.4	862.3	891.9	917.5	933.3
45°	811.0	824.8	856.4	891.9	909.6
47.5°	767.6	783.3	818.9	864.2	882.0
50°	722.2	738.0	781.4	832.7	852.4
52.5°	676.8	694.6	745.9	801.1	824.8
55°	627.5	647.2	710.3	769.5	795.2
57.5°	576.2	599.8	670.9	734.0	761.6
60°	522.9	552.5	631.4	698.5	728.1
62.5°	467.6	503.2	591.9	663.0	694.6
65°	414.4	453.8	550.5	625.5	659.0
67.5°	357.1	406.5	509.1	590.0	621.5
70°	299.9	357.1	465.7	548.5	580.1
72.5°	242.7	311.8	422.3	497.2	497.2
75°	187.5	264.4	376.9	374.9	363.1
77.5°	142.1	221.0	309.8	264.4	266.4
80°	102.6	177.6	195.3	195.3	197.3
82.5°	69.1	136.1	126.3	124.3	128.3
85°	41.4	63.1	65.1	59.2	61.2
87.5°	19.7	21.7	17.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)