

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: P274819

Luminaire Tested: **24CZ2-55-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P274819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55-RDP-UNV-L930-CD1-U  
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI  
Light Source: (112) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3092.0 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

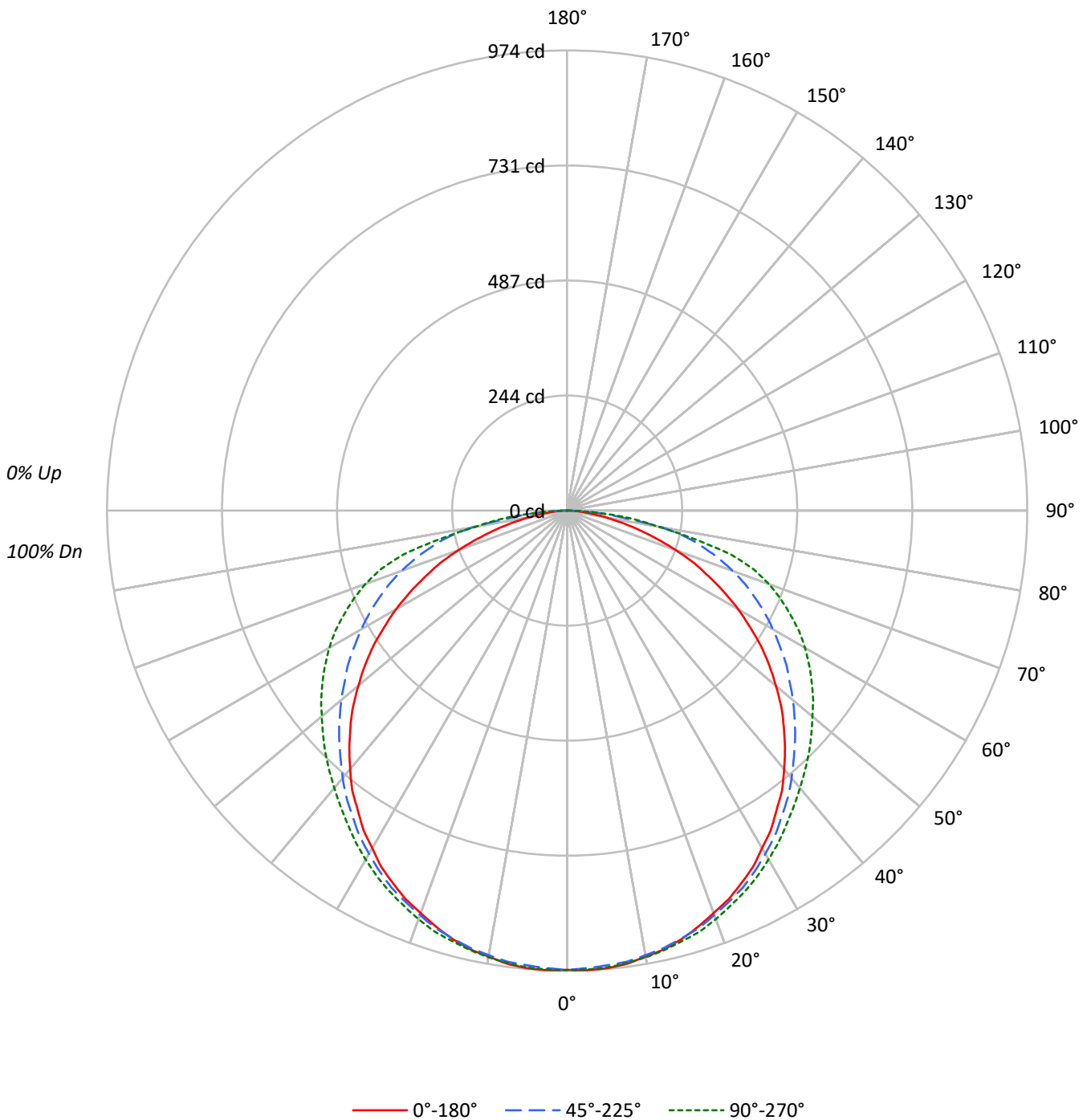
Input Watts (W): 50.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	1308	1308	1308
5°	1313	1305	1311
10°	1310	1305	1312
15°	1307	1305	1314
20°	1298	1304	1318
25°	1293	1307	1321
30°	1282	1303	1325
35°	1270	1300	1330
40°	1255	1298	1347
45°	1234	1299	1377
50°	1207	1307	1419
55°	1176	1327	1482
60°	1127	1354	1564
65°	1055	1401	1660
70°	959	1466	1786
75°	813	1547	1866
80°	642	1557	1509
85°	474	1184	1326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	3.0
10°-20°	265.5	8.6
20°-30°	405.9	13.1
30°-40°	496.2	16.0
40°-50°	528.9	17.1
50°-60°	505.7	16.4
60°-70°	428.4	13.9
70°-80°	287.9	9.3
80°-90°	81.2	2.6
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°	763.6	24.7
0°-40°	1259.9	40.7
0°-60°	2294.5	74.2
0°-90°	3092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	972	971	966	971	971	92
15°	939	939	937	945	943	265
25°	871	874	880	888	890	402
35°	773	779	791	807	810	484
45°	649	660	682	712	724	500
55°	502	520	566	610	632	447
65°	331	365	440	498	521	329
75°	156	213	298	348	359	168
85°	31	63	77	83	86	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	972.3	972.3	972.3	972.3	972.3
2.5°	973.9	973.9	969.3	972.3	972.3
5°	972.3	970.8	966.2	970.8	970.8
7.5°	967.7	966.2	963.1	967.7	966.2
10°	958.5	958.5	955.5	960.1	960.1
12.5°	950.9	949.3	947.8	953.9	952.4
15°	938.6	938.6	937.1	944.7	943.2
17.5°	923.3	924.8	926.3	932.5	934.0
20°	906.4	909.5	911.0	920.2	920.2
22.5°	891.1	892.6	895.7	904.9	904.9
25°	871.1	874.2	880.3	888.0	889.5
27.5°	851.2	852.7	860.4	871.1	872.7
30°	825.1	829.7	838.9	851.2	852.7
32.5°	802.1	806.7	817.4	829.7	832.8
35°	773.0	779.1	791.4	806.7	809.8
37.5°	746.9	751.5	766.8	783.7	788.3
40°	714.7	723.9	739.2	759.2	766.8
42.5°	682.5	691.7	710.1	736.2	745.4
45°	648.7	659.5	682.5	711.6	723.9
47.5°	615.0	627.3	653.3	687.1	700.9
50°	576.7	592.0	624.2	662.5	677.9
52.5°	539.9	558.3	593.5	636.5	656.4
55°	501.5	519.9	565.9	610.4	631.9
57.5°	458.6	483.1	533.7	584.3	607.3
60°	418.7	441.7	503.0	558.3	581.3
62.5°	375.7	406.4	472.4	530.6	553.7
65°	331.3	365.0	440.2	498.4	521.4
67.5°	291.4	328.2	408.0	466.2	489.2
70°	243.9	289.9	372.7	431.0	454.0
72.5°	199.4	250.0	335.9	392.6	414.1
75°	156.4	213.2	297.5	348.1	358.9
77.5°	116.6	176.4	257.7	279.1	271.5
80°	82.8	141.1	200.9	190.2	194.8
82.5°	53.7	107.4	124.2	141.1	145.7
85°	30.7	62.9	76.7	82.8	85.9
87.5°	13.8	23.0	30.7	30.7	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)