

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: P474266

Luminaire Tested: **24CZ2-55-RDP-UNV-L840-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474266
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55-RDP-UNV-L840-CD1-U
Description: 2'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

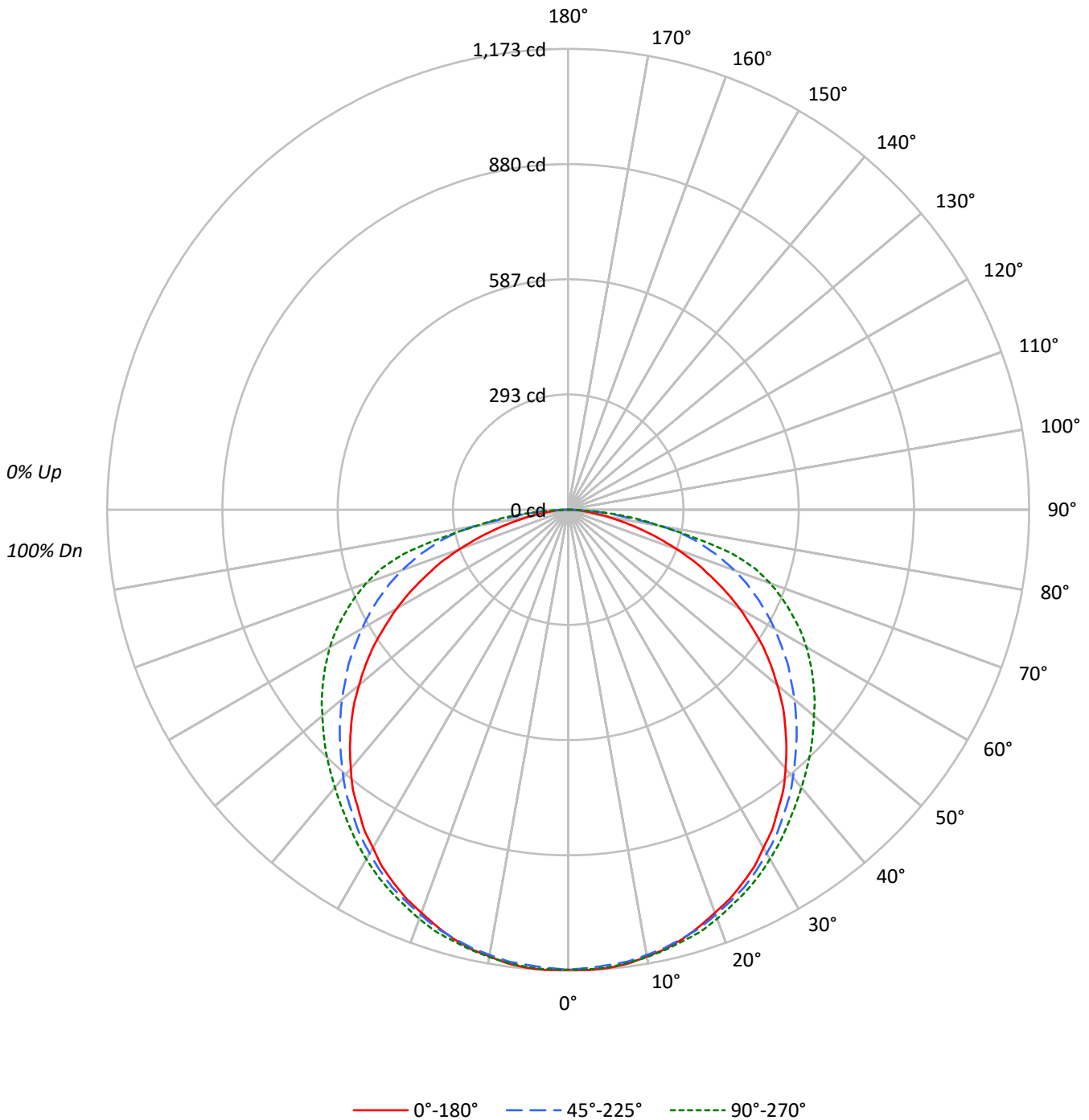
Lumens per Lamp: N/A
Luminaire Lumens: 3723.7 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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	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°	1576	1576	1576
5°	1582	1572	1579
10°	1577	1572	1580
15°	1575	1572	1582
20°	1563	1571	1587
25°	1557	1574	1590
30°	1544	1570	1595
35°	1529	1565	1602
40°	1512	1564	1622
45°	1487	1564	1659
50°	1454	1573	1709
55°	1417	1599	1785
60°	1357	1630	1884
65°	1270	1687	1999
70°	1155	1766	2150
75°	979	1863	2247
80°	773	1874	1817
85°	571	1426	1598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.0
10°-20°	319.7	8.6
20°-30°	488.9	13.1
30°-40°	597.6	16.0
40°-50°	637.0	17.1
50°-60°	609.0	16.4
60°-70°	515.9	13.9
70°-80°	346.7	9.3
80°-90°	97.8	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°	919.6	24.7
0°-40°	1517.2	40.7
0°-60°	2763.2	74.2
0°-90°	3723.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1171	1169	1164	1169	1169	111
15°	1130	1130	1128	1138	1136	319
25°	1049	1053	1060	1069	1071	484
35°	931	938	953	972	975	583
45°	781	794	822	857	872	603
55°	604	626	682	735	761	538
65°	399	440	530	600	628	396
75°	188	257	358	419	432	202
85°	37	76	92	100	104	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.0	1171.0	1171.0	1171.0	1171.0
2.5°	1172.9	1172.9	1167.3	1171.0	1171.0
5°	1171.0	1169.2	1163.7	1169.2	1169.2
7.5°	1165.5	1163.7	1160.0	1165.5	1163.7
10°	1154.4	1154.4	1150.7	1156.3	1156.3
12.5°	1145.2	1143.3	1141.5	1148.9	1147.0
15°	1130.4	1130.4	1128.5	1137.8	1135.9
17.5°	1111.9	1113.8	1115.6	1123.0	1124.8
20°	1091.6	1095.3	1097.1	1108.2	1108.2
22.5°	1073.1	1074.9	1078.6	1089.7	1089.7
25°	1049.1	1052.8	1060.2	1069.4	1071.3
27.5°	1025.1	1026.9	1036.1	1049.1	1050.9
30°	993.6	999.2	1010.3	1025.1	1026.9
32.5°	965.9	971.5	984.4	999.2	1002.9
35°	930.8	938.2	953.0	971.5	975.2
37.5°	899.4	904.9	923.4	943.7	949.3
40°	860.8	871.7	890.2	914.2	923.4
42.5°	822.0	833.1	855.2	886.5	897.5
45°	781.3	794.2	822.0	857.1	871.7
47.5°	740.7	755.4	786.9	827.5	844.1
50°	694.5	712.9	751.7	797.9	816.4
52.5°	650.1	672.3	714.8	766.5	790.6
55°	603.9	626.1	681.5	735.1	761.0
57.5°	552.2	581.7	642.7	703.7	731.4
60°	504.3	531.8	605.8	672.3	700.0
62.5°	452.6	489.5	568.8	639.0	666.7
65°	399.0	439.6	530.0	600.2	627.9
67.5°	350.9	395.3	491.4	561.4	589.1
70°	293.6	349.1	448.9	518.9	546.6
72.5°	240.0	301.0	404.5	472.9	498.8
75°	188.3	256.7	358.3	419.3	432.2
77.5°	140.4	212.3	310.3	336.1	326.9
80°	99.8	170.0	241.9	229.0	234.5
82.5°	64.7	129.4	149.7	170.0	175.4
85°	37.0	75.8	92.4	99.8	103.5
87.5°	16.6	27.7	37.0	37.0	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)