

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: P474224

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474224
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-RDP-UNV-L835-CD1-U
Description: 2'X4' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.8 lumens
Efficiency: N/A
Efficacy: 88.1 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

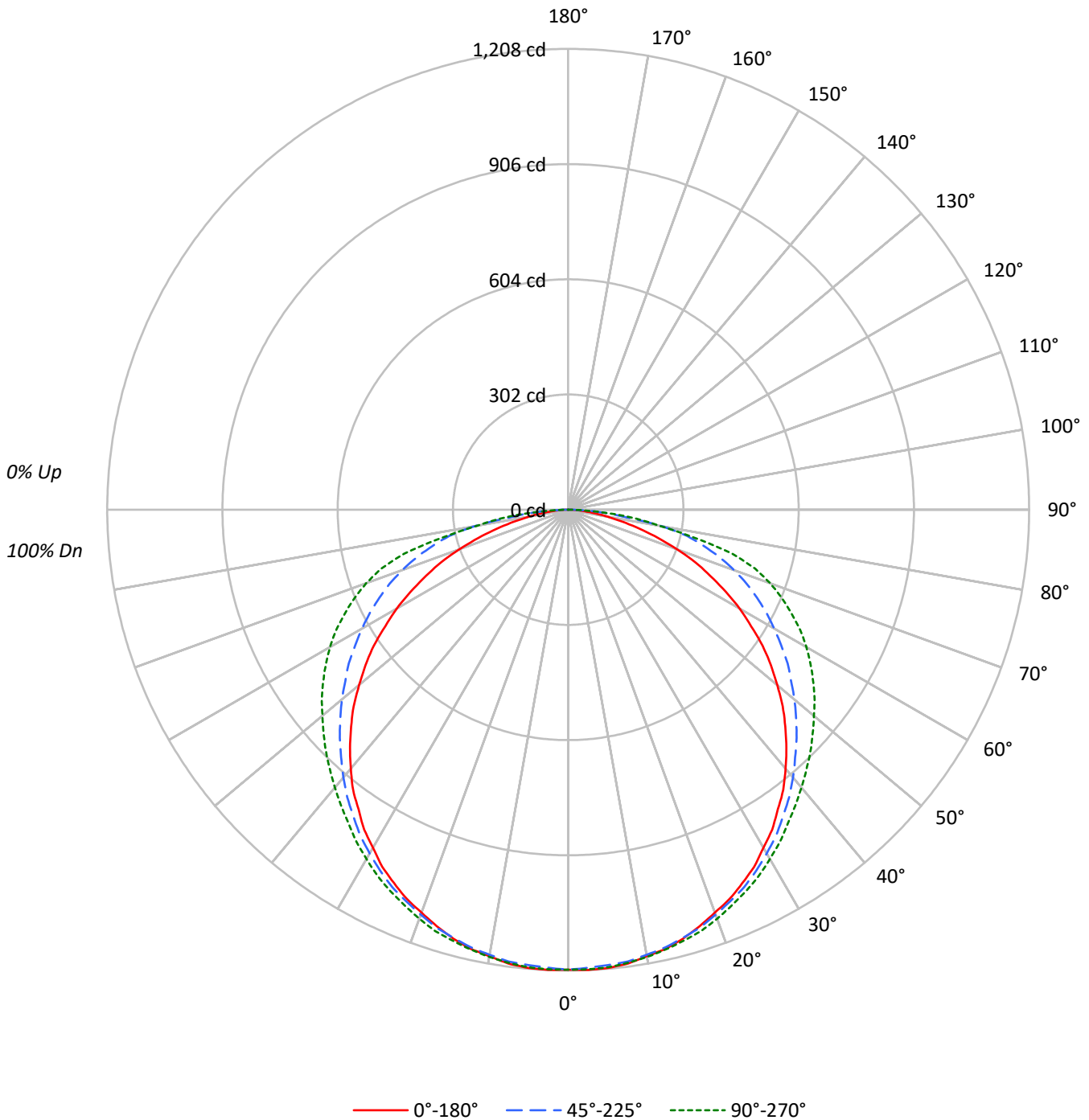
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1622	1622	1622
5°	1628	1618	1626
10°	1624	1619	1627
15°	1621	1618	1629
20°	1609	1617	1634
25°	1603	1620	1637
30°	1589	1616	1643
35°	1574	1612	1649
40°	1557	1610	1670
45°	1531	1610	1708
50°	1497	1620	1760
55°	1459	1646	1838
60°	1397	1678	1939
65°	1308	1737	2058
70°	1189	1818	2214
75°	1008	1918	2313
80°	796	1930	1870
85°	588	1468	1644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.0
10°-20°	329.1	8.6
20°-30°	503.3	13.1
30°-40°	615.3	16.0
40°-50°	655.8	17.1
50°-60°	627.0	16.4
60°-70°	531.2	13.9
70°-80°	357.0	9.3
80°-90°	100.7	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
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0°-30°	946.8	24.7
0°-40°	1562.1	40.7
0°-60°	2844.9	74.2
0°-90°	3833.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1206	1204	1198	1204	1204	115
15°	1164	1164	1162	1171	1170	328
25°	1080	1084	1092	1101	1103	498
35°	958	966	981	1000	1004	600
45°	804	818	846	882	898	620
55°	622	645	702	757	784	554
65°	411	453	546	618	646	408
75°	194	264	369	432	445	208
85°	38	78	95	103	106	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.7	1205.7	1205.7	1205.7	1205.7
2.5°	1207.6	1207.6	1201.9	1205.7	1205.7
5°	1205.7	1203.8	1198.1	1203.8	1203.8
7.5°	1200.0	1198.1	1194.3	1200.0	1198.1
10°	1188.6	1188.6	1184.7	1190.5	1190.5
12.5°	1179.0	1177.1	1175.2	1182.8	1180.9
15°	1163.8	1163.8	1161.9	1171.4	1169.5
17.5°	1144.8	1146.7	1148.6	1156.2	1158.1
20°	1123.9	1127.7	1129.6	1141.0	1141.0
22.5°	1104.8	1106.7	1110.5	1122.0	1122.0
25°	1080.1	1083.9	1091.5	1101.0	1102.9
27.5°	1055.4	1057.3	1066.8	1080.1	1082.0
30°	1023.0	1028.7	1040.2	1055.4	1057.3
32.5°	994.5	1000.2	1013.5	1028.7	1032.5
35°	958.3	966.0	981.2	1000.2	1004.0
37.5°	926.0	931.7	950.7	971.7	977.4
40°	886.2	897.5	916.5	941.2	950.7
42.5°	846.3	857.7	880.5	912.7	924.1
45°	804.4	817.7	846.3	882.4	897.5
47.5°	762.6	777.8	810.1	852.0	869.1
50°	715.0	734.0	774.0	821.5	840.6
52.5°	669.3	692.2	735.9	789.2	813.9
55°	621.8	644.6	701.7	756.9	783.5
57.5°	568.5	598.9	661.7	724.5	753.0
60°	519.2	547.6	623.7	692.2	720.7
62.5°	465.9	504.0	585.6	657.9	686.5
65°	410.8	452.6	545.7	618.0	646.5
67.5°	361.3	407.0	505.9	578.0	606.5
70°	302.3	359.4	462.1	534.3	562.8
72.5°	247.1	309.9	416.5	486.9	513.5
75°	193.9	264.3	368.9	431.7	445.0
77.5°	144.6	218.6	319.4	346.1	336.6
80°	102.7	175.0	249.1	235.7	241.4
82.5°	66.6	133.2	154.1	175.0	180.6
85°	38.1	78.0	95.1	102.7	106.5
87.5°	17.1	28.5	38.1	38.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)