

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: P232301

Luminaire Tested: **24RDI-30-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-2-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RDI-30-UNV-L835-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
STANDARD VERISON
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

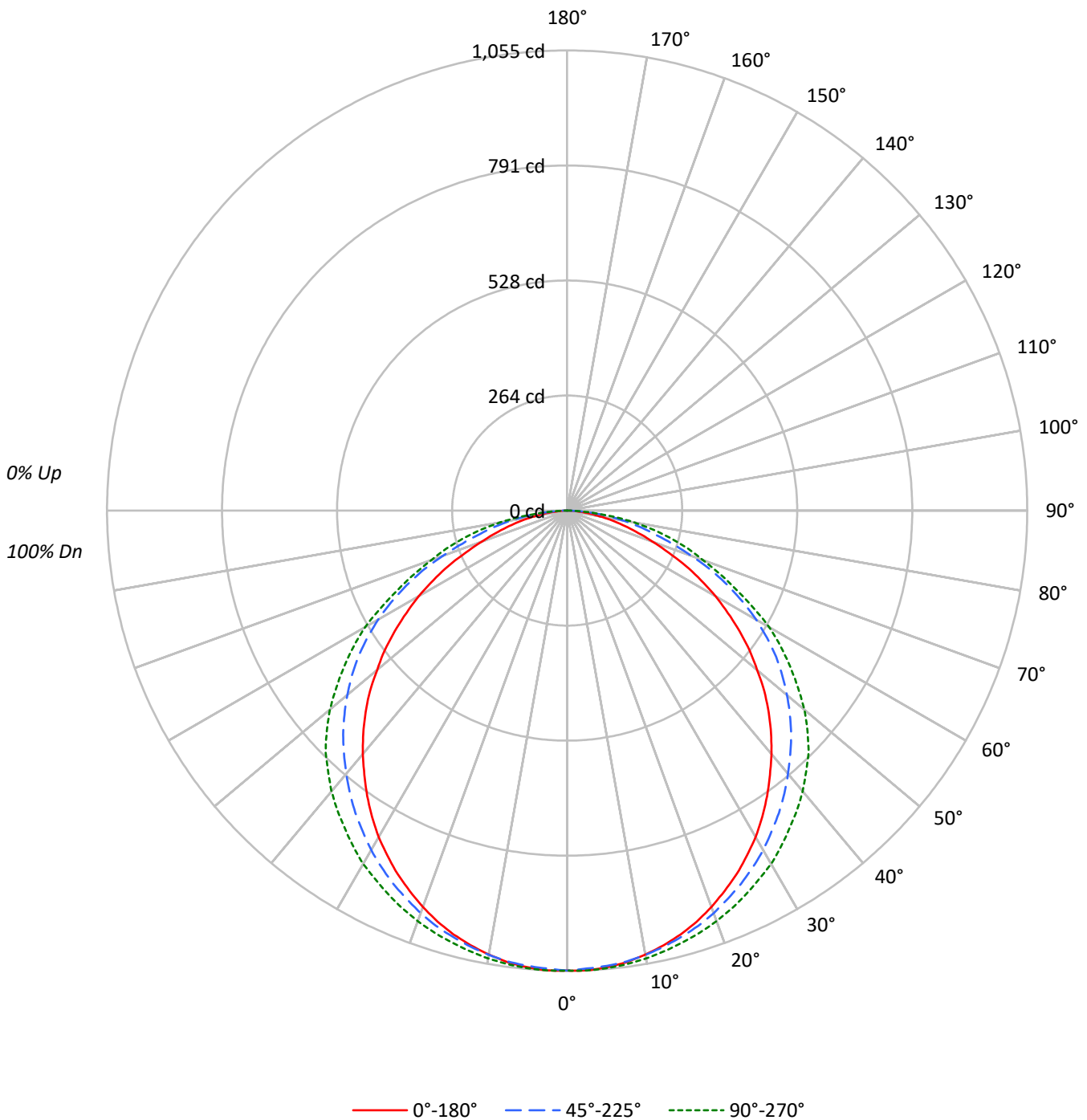
Lumens per Lamp: N/A
Luminaire Lumens: 3071.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1419	1419	1419
5°	1419	1415	1422
10°	1412	1413	1425
15°	1401	1410	1427
20°	1385	1406	1434
25°	1366	1401	1441
30°	1343	1396	1453
35°	1313	1390	1460
40°	1280	1384	1476
45°	1244	1382	1490
50°	1191	1378	1486
55°	1132	1372	1465
60°	1057	1345	1440
65°	957	1294	1358
70°	820	1191	1301
75°	713	1071	1282
80°	593	999	1196
85°	404	775	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.3
10°-20°	286.3	9.3
20°-30°	435.5	14.2
30°-40°	529.1	17.2
40°-50°	556.4	18.1
50°-60°	507.6	16.5
60°-70°	382.2	12.4
70°-80°	217.1	7.1
80°-90°	57.0	1.9
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°	821.6	26.8
0°-40°	1350.7	44.0
0°-60°	2414.7	78.6
0°-90°	3071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1051	1049	1048	1052	1053	100
15°	1006	1008	1012	1022	1025	284
25°	920	926	944	964	971	423
35°	799	814	846	878	889	500
45°	654	675	726	767	783	503
55°	483	520	585	615	624	431
65°	301	350	406	421	426	296
75°	137	181	206	238	247	147
85°	26	40	50	58	57	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1055.4	1053.9	1050.9	1053.9	1055.4
5°	1050.9	1049.4	1047.9	1051.7	1053.2
7.5°	1044.2	1043.4	1042.7	1047.2	1048.7
10°	1033.7	1033.7	1034.4	1040.4	1042.7
12.5°	1020.9	1020.9	1023.9	1031.4	1034.4
15°	1006.0	1007.5	1012.0	1021.7	1024.7
17.5°	988.0	991.0	998.5	1009.7	1014.2
20°	967.0	970.7	982.0	996.2	1001.5
22.5°	943.7	950.5	963.2	981.2	987.2
25°	919.8	926.5	943.7	964.0	970.7
27.5°	892.0	900.3	922.0	944.5	952.7
30°	864.3	871.8	898.8	925.0	935.5
32.5°	832.8	843.3	872.5	901.8	913.0
35°	799.1	814.1	846.3	877.8	889.0
37.5°	763.8	781.8	817.8	853.0	865.8
40°	728.6	748.8	787.8	825.3	840.3
42.5°	691.9	712.9	757.1	797.6	811.1
45°	653.6	675.4	726.4	766.8	783.3
47.5°	613.2	639.4	692.6	734.6	747.3
50°	568.9	600.4	658.1	698.6	709.9
52.5°	527.7	559.9	622.2	661.1	667.1
55°	482.7	520.2	584.7	615.4	624.4
57.5°	437.0	479.0	543.5	571.9	580.9
60°	392.8	435.5	500.0	526.2	535.2
62.5°	345.6	395.8	454.3	479.0	480.5
65°	300.6	350.1	406.3	421.3	426.5
67.5°	251.9	308.8	358.3	371.0	378.5
70°	208.4	266.9	302.8	323.8	330.6
72.5°	171.7	223.4	251.9	281.8	290.8
75°	137.2	180.7	206.1	238.4	246.6
77.5°	106.4	140.2	168.7	197.1	201.6
80°	76.5	96.7	128.9	150.7	154.4
82.5°	51.0	63.7	91.5	103.4	105.7
85°	26.2	39.7	50.2	58.5	57.0
87.5°	9.7	15.0	17.2	19.5	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)