

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: P232305

Luminaire Tested: **24RDI-40-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232305
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-40-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

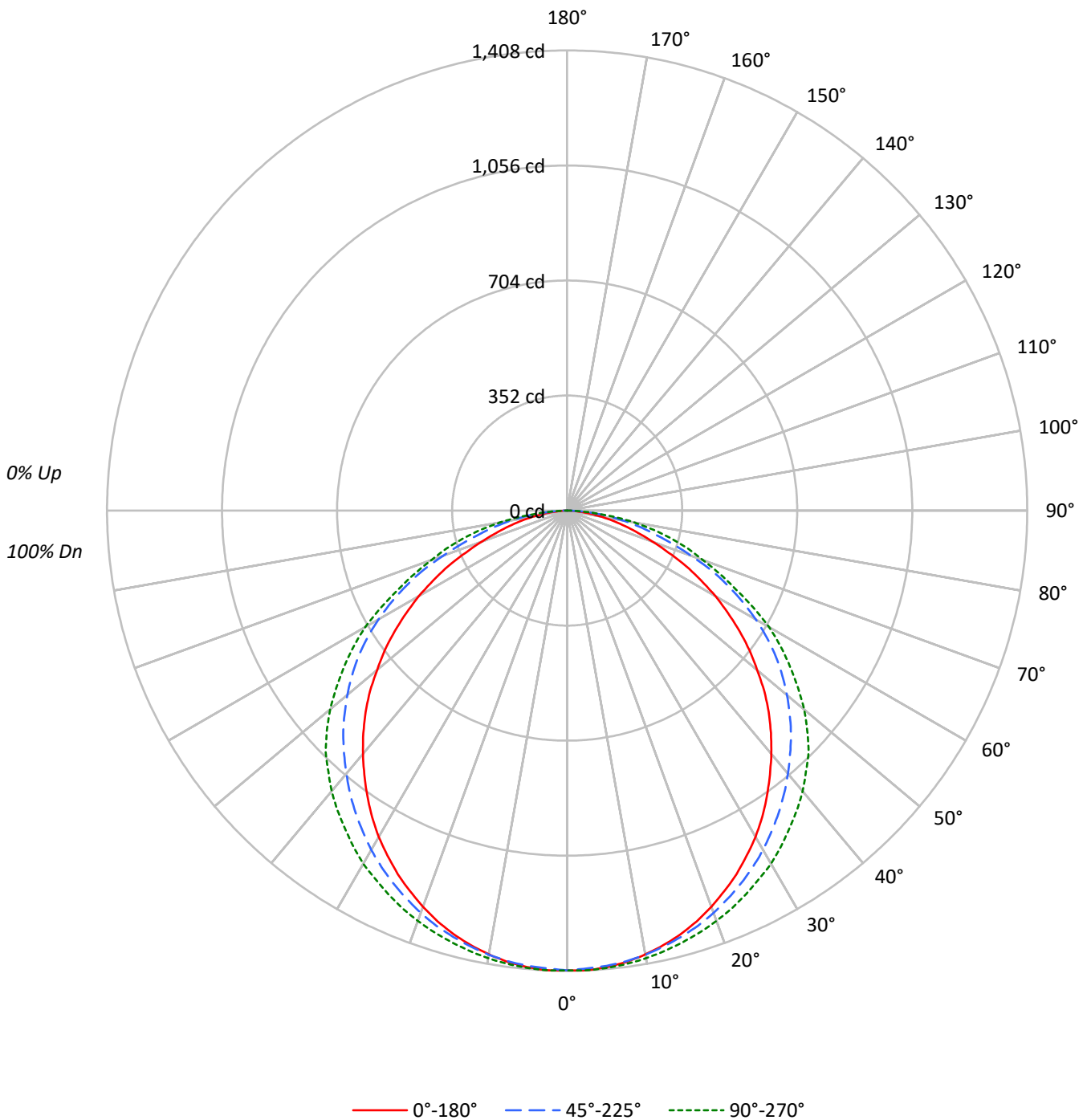
Lumens per Lamp: N/A
Luminaire Lumens: 4096.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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°	1893	1893	1893
5°	1894	1888	1898
10°	1884	1885	1900
15°	1869	1880	1904
20°	1847	1876	1913
25°	1822	1869	1923
30°	1791	1863	1939
35°	1751	1854	1948
40°	1707	1846	1969
45°	1659	1844	1988
50°	1589	1838	1982
55°	1511	1830	1954
60°	1410	1795	1921
65°	1277	1726	1812
70°	1094	1589	1735
75°	951	1430	1710
80°	790	1333	1596
85°	540	1034	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.3
10°-20°	381.9	9.3
20°-30°	581.0	14.2
30°-40°	705.9	17.2
40°-50°	742.2	18.1
50°-60°	677.2	16.5
60°-70°	509.9	12.4
70°-80°	289.6	7.1
80°-90°	76.0	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°	1096.0	26.8
0°-40°	1801.9	44.0
0°-60°	3221.3	78.6
0°-90°	4096.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1402	1400	1398	1403	1405	133
15°	1342	1344	1350	1363	1367	378
25°	1227	1236	1259	1286	1295	565
35°	1066	1086	1129	1171	1186	667
45°	872	901	969	1023	1045	671
55°	644	694	780	821	833	575
65°	401	467	542	562	569	395
75°	183	241	275	318	329	196
85°	35	53	67	78	76	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407	1407	1407	1407	1407
2.5°	1408	1406	1402	1406	1408
5°	1402	1400	1398	1403	1405
7.5°	1393	1392	1391	1397	1399
10°	1379	1379	1380	1388	1391
12.5°	1362	1362	1366	1376	1380
15°	1342	1344	1350	1363	1367
17.5°	1318	1322	1332	1347	1353
20°	1290	1295	1310	1329	1336
22.5°	1259	1268	1285	1309	1317
25°	1227	1236	1259	1286	1295
27.5°	1190	1201	1230	1260	1271
30°	1153	1163	1199	1234	1248
32.5°	1111	1125	1164	1203	1218
35°	1066	1086	1129	1171	1186
37.5°	1019	1043	1091	1138	1155
40°	972	999	1051	1101	1121
42.5°	923	951	1010	1064	1082
45°	872	901	969	1023	1045
47.5°	818	853	924	980	997
50°	759	801	878	932	947
52.5°	704	747	830	882	890
55°	644	694	780	821	833
57.5°	583	639	725	763	775
60°	524	581	667	702	714
62.5°	461	528	606	639	641
65°	401	467	542	562	569
67.5°	336	412	478	495	505
70°	278	356	404	432	441
72.5°	229	298	336	376	388
75°	183	241	275	318	329
77.5°	142	187	225	263	269
80°	102	129	172	201	206
82.5°	68	85	122	138	141
85°	35	53	67	78	76
87.5°	13	20	23	26	23
90°	0	0	0	0	0

(END OF REPORT)