

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: P35079

Luminaire Tested: **22EN-LD2-43HP-UNV-L835-CD1-SVPD1-U**

Test Date: 10/18/16

Test Information

Test Method: LM-79-08
Report Number: P35079
Test Lab: INNOVATION CENTER-P3
Test Date: 10/18/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43HP-UNV-L835-CD1-SVPD1-U
Description: ENCOUNTER 2X2 LED TROFFER WITH SENSOR
Light Source: (196) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 760 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4369.9 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.38 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

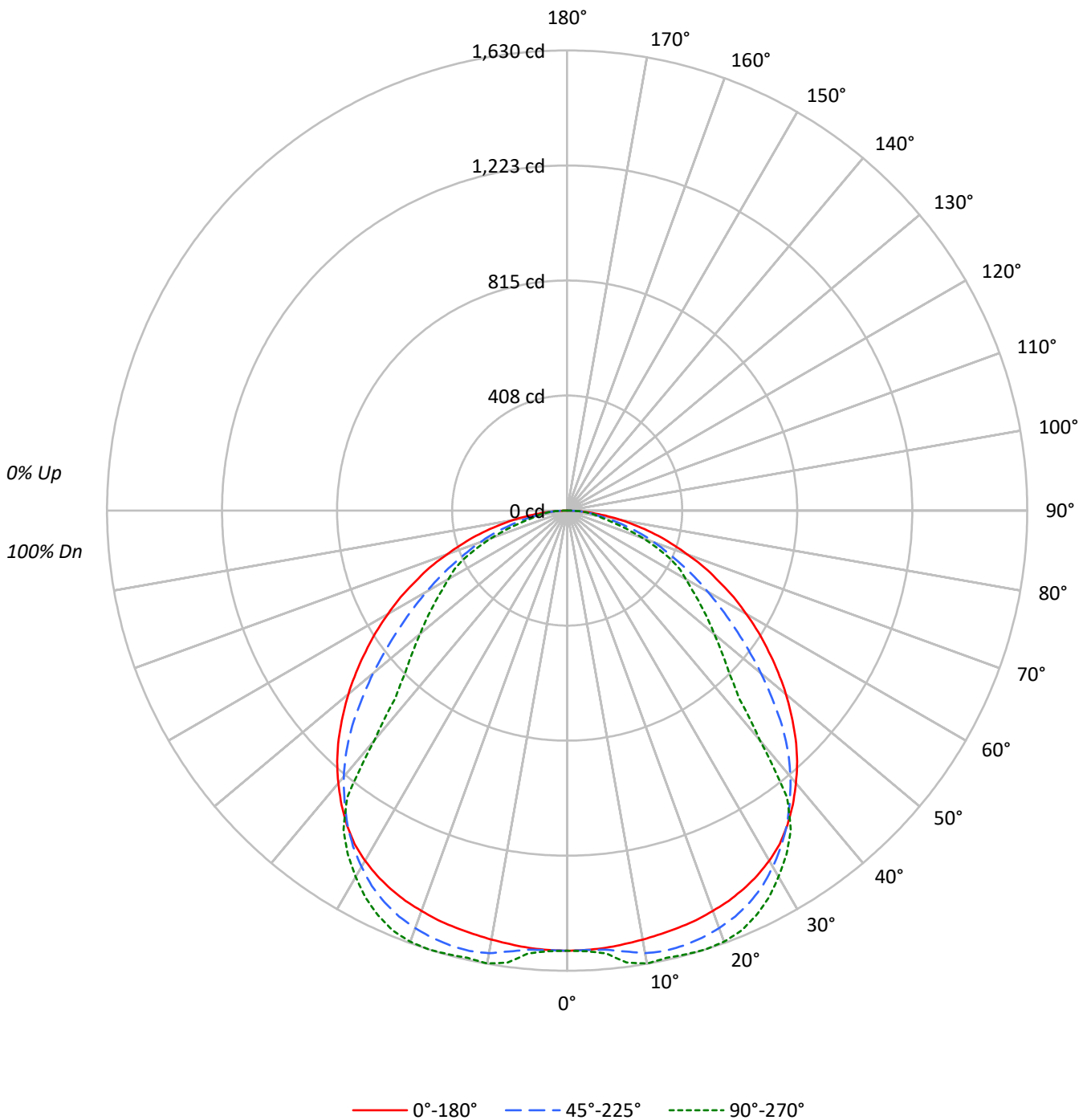
Input Watts (W): 35.9
Input Voltage (V): 277.0
Input Current (Ain): 0.138
Voltage Rise (V): NR
Power Factor: 0.9609
Total Harmonic Distortion (THDi): 20.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



TEST NUMBER: P35079

CATALOG NUMBER: 22EN-LD2-43HP-UNV-L835-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P35079

CATALOG NUMBER: 22EN-LD2-43HP-UNV-L835-CD1-SVPD1-U

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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36					36			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4993	4993	4993
5°	4999	5018	5060
10°	5018	5177	5297
15°	5069	5288	5394
20°	5143	5364	5538
25°	5226	5410	5594
30°	5295	5388	5539
35°	5317	5305	5399
40°	5272	5146	4444
45°	5186	4878	3668
50°	5042	4469	3388
55°	4869	4048	3205
60°	4695	3676	3106
65°	4486	3342	3046
70°	4232	3062	2669
75°	3984	2722	2178
80°	3596	2268	2010
85°	2866	2388	2388



TEST NUMBER: P35079

CATALOG NUMBER: 22EN-LD2-43HP-UNV-L835-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.4
10°-20°	448.6	10.3
20°-30°	705.0	16.1
30°-40°	845.7	19.4
40°-50°	789.9	18.1
50°-60°	646.1	14.8
60°-70°	462.7	10.6
70°-80°	248.2	5.7
80°-90°	73.5	1.7
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°	1303.8	29.8
0°-40°	2149.5	49.2
0°-60°	3585.5	82.1
0°-90°	4369.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4369.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1555	1555	1561	1571	1574	148
15°	1529	1553	1595	1615	1627	433
25°	1479	1498	1531	1570	1583	682
35°	1360	1347	1357	1376	1381	849
45°	1145	1109	1077	921	810	881
55°	872	830	725	601	574	781
65°	592	538	441	392	402	588
75°	322	273	220	184	176	340
85°	78	68	65	63	65	94
90°	0	0	0	0	0	



TEST NUMBER: P35079

CATALOG NUMBER: 22EN-LD2-43HP-UNV-L835-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559	1559	1559	1559	1559
2.5°	1558	1557	1558	1561	1562
5°	1555	1555	1561	1571	1574
7.5°	1549	1554	1575	1605	1615
10°	1543	1555	1592	1621	1629
12.5°	1536	1556	1598	1616	1623
15°	1529	1553	1595	1615	1627
17.5°	1521	1547	1587	1613	1630
20°	1509	1537	1574	1607	1625
22.5°	1496	1520	1556	1593	1611
25°	1479	1498	1531	1570	1583
27.5°	1458	1473	1499	1532	1546
30°	1432	1436	1457	1484	1498
32.5°	1401	1395	1411	1434	1445
35°	1360	1347	1357	1376	1381
37.5°	1313	1296	1296	1296	1279
40°	1261	1237	1231	1169	1063
42.5°	1206	1174	1158	1033	901
45°	1145	1109	1077	921	810
47.5°	1078	1041	984	825	742
50°	1012	975	897	740	680
52.5°	942	902	808	670	626
55°	872	830	725	601	574
57.5°	804	758	648	543	526
60°	733	684	574	490	485
62.5°	665	610	508	442	450
65°	592	538	441	392	402
67.5°	527	467	382	344	343
70°	452	400	327	288	285
72.5°	386	336	275	234	229
75°	322	273	220	184	176
77.5°	256	218	171	138	132
80°	195	165	123	109	109
82.5°	136	115	91	87	90
85°	78	68	65	63	65
87.5°	33	31	34	33	35
90°	0	0	0	0	0

(END OF REPORT)